





SINGLE ROPES

For ascent where only one rope is used. This is the most basic and widely used method of using rope for ascents.



HALF ROPES

Separate ropes are anchored in alternating belaying points. This system reduces the risk of rope breakage by falling rocks and provides maximum protection in alpine conditions or on tough climbs.



TWIN ROPES

The same ropes are always used in pairs, secured at common belaying points. Twin ropes guarantee a high level of safety, especially for classic alpine climbing.



MIDPOINT OF ROPE

At half of the length, the rope is visibly marked by coloured band, which does not affect the core structure and its mechanical properties. Lengths 30 - 80 m only.



СОМРАСТ

Our own special technology has been used for the ends of the rope. In a length of 15 mm, the core strand and sheath are connected into one unit.



TEFIX®

The TeFIX^{\otimes} patented technology permanently bonds the sheath to the core. It prevents from any slippage between these two basic rope parts.



LOWE

Thanks to the unique combination of materials which work together jointly and meet the stringent requirements of the EN 892 standard, we were able to reduce the weight while retaining a diameter acceptable to all climbers.



SECURE

Rope with a zero sheath slippage is made with utilization of the unique patented technology named Secure. Thanks to the unique sandwich-type construction of braided layers and the use of specially finished fibres, the rope is safe even in case of a heavily damaged sheath.



SBS — SIMPLE BRAID SYSTEM

SBS – is system where each strand is plaited separatelly into the sheath construction and not in pair (tandem). SBS braiding makes the sheath surface much more compact and smoother. Therefore ropes made by SBS generate much lower friction, are more resistant to abrasion and last longer while in contact with rocks.



STANDARD

Improved basic finishing of dynamic ropes. The new technological process enables the application of impregnation agents early in the standard finishing of the ropes.



COMPLETE SHIELD

Maximum level of rope protection against water and abrasion. It is reached by using the new progressive NANOTECHNOLOGY method. COMPLETE SHIELD is an impregnation which extends the general lifespan of TENDON ropes significantly.



ECO SHIELD

ECO variant of impregnation, which guarantees high water-repellent rope protection. The core and sheath are treated with a new method of PFC-free ECO impregnation, which forms a water-repellent layer. Rope with this protection does not absorb water and is environmentally friendly because it does not contain fluorinated hydrocarbons C8 or C6.





BICOLOUR

A new, clearly identifiable change of rope pattern in the middle. Bicolour brings comfort in rope handling and is advantageous especially for descending.



CE - SYMBOL OF CONFORMITY

This symbol confirms that the product meets safety requirements specified in the relevant Europen regulations. The number following symbol (e.g. CE1019) is number of notified body which performs checking of production: VVUÚ, a.s., Pikartská 1337/7, 71607 Ostrava-Radvanice, Czech Republic.



UIAA

Products marked with this symbol meet UIAA requirements. The UIAA is the International Mountaineering and Climbing Federation.



TENOTE

New, revolutionary conception of the overall administration and registration of ropes which, thanks to NFC technology, offers unthought-of possibilities and brings user comfort to a hitherto unrecognized level. Static ropes includes microchip. With a PC and a mobile phone you obtain a quick, effective and smart tool for examination and maintenance of your ropes.

EN 1891

This European norm establishes safety requirements and testing procedures for static ropes at European Union accredited laboratories. Products labeled with the symbol of this European norm satisfy the given safety requirements.

EN 892

This European norm establishes safety requirements and testing procedures for dynamic climbing ropes at European Union accredited laboratories. Products labelled with the symbol of this European norm satisfy the given safety requirements.

NFPA

These ropes meet the life safety rope requirements of NFPA 1983, standard on fire service life safety rope and equipment for emergency services, 2017 edition.



EXPERT – If climbing is your lifestyle and you always go for the best equipment available. You need aggressive ropes that never fail and support your impressive performance.

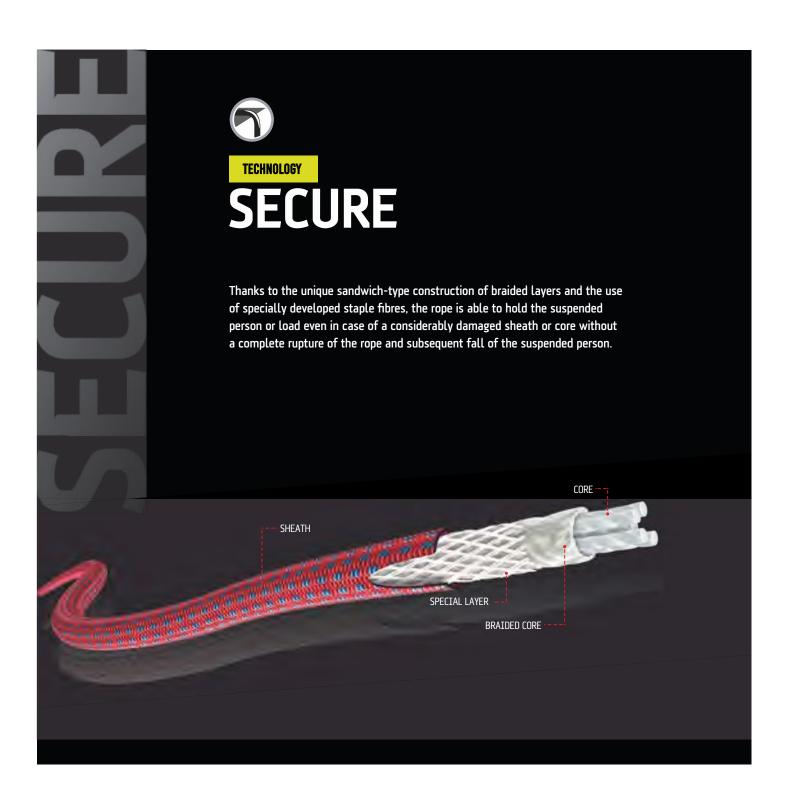


ADVANCED - It seems that you are serious, about climbing and that you care about the gear you use. The fact that you've already achieved quite difficult routes only confirms it. Go for the ropes labeled as Advanced.



BEGINNER – Ropes ideal for your first moves on rock or occasional climbing. Thicker diameters and long lifespan.







TECHNOLOGY

ECO SHIELD

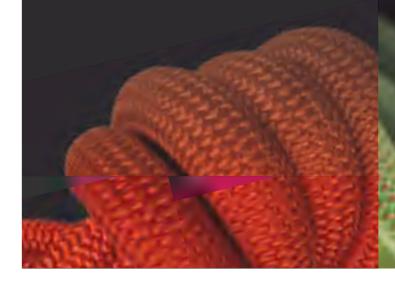
The new ECO rope protection against impregnation, guarantees high water-repellent rope protection. The core and sheath are treated with a new method of PFC-free ECO impregnation, which forms a water-repellent layer. Rope with this protection does not absorb water and is environmentally friendly because it does not contain fluorinated hydrocarbons C8 or C6. Our PFC – free rope meets the UIAA water repellent standard.



TECHNOLOGY

COMPLETE SHIELD

Maximum level of rope protection against water and abrasion. It is reached by using the new progressive nanotechnology method. The rope fibres are then protected against dust and water which would othervise cause a harm to the rope construction. Complete shield is an impregnation which extends the general lifespan of tendon ropes significantly. All ropes with the complete shield finish meet the uiaa 101 requirement for water repellent test.





SIMPLE BRAID SYSTEM – is a system where each strand is plaited separatelly into the sheath construction and not in pairs (tandem). SBS braiding makes the sheath surface much more compact and smoother. Therefore ropes made by SBS generate much lower friction, are more resistant to abrasion and last longer while in contact with the rocks.





Thanks to the unique combination of materials which work together jointly and meet the stringent requirements of the EN 892 standard, we were able to reduce the weight while retaining a diameter acceptable to all climbers.





RANDALL

WHAT DOES CLIMBING MEAN TO ME?

Climbing for me, is a form of meditation and expression of creativity. On one side, I find that climbing is so involving for your brain that it actually makes everything else in like "switch off" so then I can feel really calm in my head and it seems like it's just me, the rock, the moves and nothing else in life. On the other side, it's an incredible outlet for creativity because it's still a sport without too many rules! For example, I've loved how this year we've been on lock-downs and zero travel allowed, but I can still find monster roof crack projects on the underside of bridges. Yes it seems a bit weird, but it's creative in my mind and it allows me to still express a level of adventure and exploration in the manner in which I find rewarding.





EN 892 / CE 1019	1	①	@	
ROPE DIAMETER	9.0	9.0	9.0	mn
WEIGHT	55	55	55	g/r
NUMBER OF UIAA FALLS	6	19	33	
MAX. IMPACT FORCE	8.9	6.5	10.8	kN
SHEATH SLIPPAGE	0	0	0	%
STATIC ELONGATION	9.6	9.6	9.6	%
DYNAMIC ELONGATION	31	29	25	%
KNOTABILITY	0.9	0.9	0.9	

MASTER 9.0 TEFIX®

EXPERT

If you want to have a lightweight rope for sport climbing and if you would like to use it occasionally in the mountains also, MASTER 9.0 is a good choice. In addition, this rope makes use of the TeFIX® technology which increases resistance and prolongs the lifespan of the rope thanks to the connection of the core and the sheath.

Santa da la companya	D090MF42C000C • TURQUOISE
	DO90MF41C000C • PINK



EN 892 / CE 1019	1	
ROPE DIAMETER	9.2	mm
WEIGHT	58	g/m
NUMBER OF UIAA FALLS	9	
MAX. IMPACT FORCE	8.5	kN _
SHEATH SLIPPAGE	0.1	%
STATIC ELONGATION	6.5	%
DYNAMIC ELONGATION	35	%
KNOTABILITY	0.9	

MASTER PRO 9.2 EXPERT

This rope defeats the stigma that thin ropes are not durable. You don't need to carry one rope for practicing and another one for redpoint. Innovated, extremely fine SBS sheath significantly prolongs its lifespan. The rope is at the same time soft enough and easy to work with. If you're looking for a devoted friend for sport climbing, this is your choice.

D092TP41C000C • RED
D092TP43C000C • TURQUOISE



EN 892 / CE 1019	1	1/2	⊚
ROPE DIAMETER	8.6	8.6	8.6 mm
WEIGHT	50	50	50 g/m
NUMBER OF UIAA FALLS	5	13	30
MAX. IMPACT FORCE	9.9	7.2	11.5 kN
SHEATH SLIPPAGE	0.2	0.2	0.2 %
STATIC ELONGATION	5.7	5.8	3.9 %
DYNAMIC ELONGATION	30	_ 22	23 %
KNOTABILITY	0.8	0.8	0.8

MASTER 8.6

EXPERT

The thinnest single rope we offer. The low weight, which is only 50 g, makes it an ideal weapon, which will help you to send your hardest projects.

D086TM42C000C • PINK
D086TM43C000C • TURQUOISE

SPORT CLIMBING



EN 892 / CE 1019	1	1/2	@	
ROPE DIAMETER	8.9	8.9	8.9	mn
WEIGHT	52	52	52	g/n
NUMBER OF UIAA FALLS	6	18	40	
MAX. IMPACT FORCE	9.1	6.7	10.7	kΝ
SHEATH SLIPPAGE	0.2	0.2	0.2	%
STATIC ELONGATION	6.9	6.9	5.6	%
DYNAMIC ELONGATION	31	26	24	%
KNOTABILITY	0.8	0.8	0.8	_

MASTER PRO 8.9 EXPERT

Brand new rope certificated as single, twin and half rope. Unique combination of simple braid system, modified sheath vs. core ratio in favour of sheath and complete shield impregnation guarantees good resistance and lifespan. The low weight, only 52 g/m, and low rope drag makes it excellent on-sight rope for hard climbing projects where every small detail matters.

D089TP42C000C • BLACK/BLUE
D089TP41C000C • BLACK/PINK



EN 892 / CE 1019	1	
ROPE DIAMETER	9.7	mm
WEIGHT	65	g/m
NUMBER OF UIAA FALLS	9	
MAX. IMPACT FORCE	8.5	kN
SHEATH SLIPPAGE	-0.4	%
STATIC ELONGATION	9.8	%
DYNAMIC ELONGATION	30	%
KNOTABILITY	0.9	

MASTER PRO 9.7 EXPERT

With MASTER PRO 9.7 we build on the success of the massively popular MASTER PRO 9.2. When our athletes field tested the rope, they were awestruck by the rope's outstanding durability. This incredible resilience is down to the unique braid SBS construction, which guarantees superior resistance to wear, greatly increasing the lifespan of the rope. It is the perfect choice for those who prefer durability and longevity over weight, including high performance climbers who are training for





EN 892 / CE 1019	D	
ROPE DIAMETER S	1.4	mm
WEIGHT	58	g/m
NUMBER OF UIAA FALLS	6	
MAX. IMPACT FORCE 7	.9	kΝ
SHEATH SLIPPAGE	0	%
STATIC ELONGATION 6	.4	%
DYNAMIC ELONGATION	37	%
KNOTABILITY C).9	

MASTER 9.4 EXPERT

MASTER 9.4 with a small diameter but durable SBS sheath construction. Ideal for average climbers who want to keep pushing their limits.

SALACO CONTRA	D094TM41S000C • VIOLE
	D094TM42S000C • BLUE











EN 892 / CE 1019	1	
ROPE DIAMETER	9.4	mm
WEIGHT	58	g/m
NUMBER OF UIAA FALLS	6	
MAX. IMPACT FORCE	7.9	kΝ
SHEATH SLIPPAGE	0	%
STATIC ELONGATION	6.4	%
DYNAMIC ELONGATION	37	%
KNOTABILITY	0.9	

MASTER 9.4

EXPERT

MASTER 9.4 with a small diameter but durable SBS sheath construction. Ideal for average climbers who want to keep pushing their limits. With new ECO impregnation which is PFC-free and environmentally friendly.

D094TM44E000C • BRIGHT ORANGE



EN 892 / CE 1019	1
ROPE DIAMETER	9.7 mm
WEIGHT	61 g/m
NUMBER OF UIAA FALLS	8
MAX. IMPACT FORCE	8.2 kN
SHEATH SLIPPAGE	0 %
STATIC ELONGATION	8.0 %
DYNAMIC ELONGATION	35 %
KNOTABILITY	0.8

MASTER 9.7 TEFIX®



Technologies keep advancing. Favorite MASTER 9.7 with TeFIX® technology became even more safer and durable than its older brother. Permanent connection of a core and sheath ensures that the sheath cannot slip. Check the fresh design!

D097MF41S000C • TURQUOISE D097MF42S000C • PINK



UIAA

C E

BC



EN 892 / CE 1019	1	
ROPE DIAMETER	9.7	mm
WEIGHT	61	g/m
NUMBER OF UIAA FALLS	7	
MAX. IMPACT FORCE	7.9	kN
SHEATH SLIPPAGE	0.1	%
STATIC ELONGATION	6	%
DYNAMIC ELONGATION	37	%
KNOTABILITY	0.9	

MASTER 9.7

ADVANCED

One of the most favorite ropes among our customers. MASTER 9.7 is time-proven. It offers an ideal diameter, SBS sheath and a long lifespan. One of the best ropes for rock climbing you can get. Offers an excellent value for money.



D097TV41S000C • YELLOW D097TV42S000C • GREEN

SPORT CLIMBING



EN 892 / CE 1019	1	
ROPE DIAMETER	9.8	mm
WEIGHT	64	g/m
NUMBER OF UIAA FALLS	9	
MAX. IMPACT FORCE	7.4	kΝ
SHEATH SLIPPAGE	0.05	%
STATIC ELONGATION	7.9	%
DYNAMIC ELONGATION	35	%
KNOTABILITY	0.9	

AMBITION 9.8

BEGINNER

As its name suggests, this rope is both for beginners and ambitious climbers who pursue climbing outside and indoors. It offers outstanding value for money. It has a universal diameter.

district de	D098TR41S000C • YELLOW
200	DO98TR42S000C • GREEN
	D098TR45S000C • BICOLOUR
and the same	D098TR48S000C • BRIGHT YELLO



EN 892 / CE 1019	1	
ROPE DIAMETER	10	mm
WEIGHT	67	g/m
NUMBER OF UIAA FALLS	9	
MAX. IMPACT FORCE	8.9	kΝ
SHEATH SLIPPAGE	0.2	%
STATIC ELONGATION	5	%
DYNAMIC ELONGATION	33	%
KNOTABILITY	1	

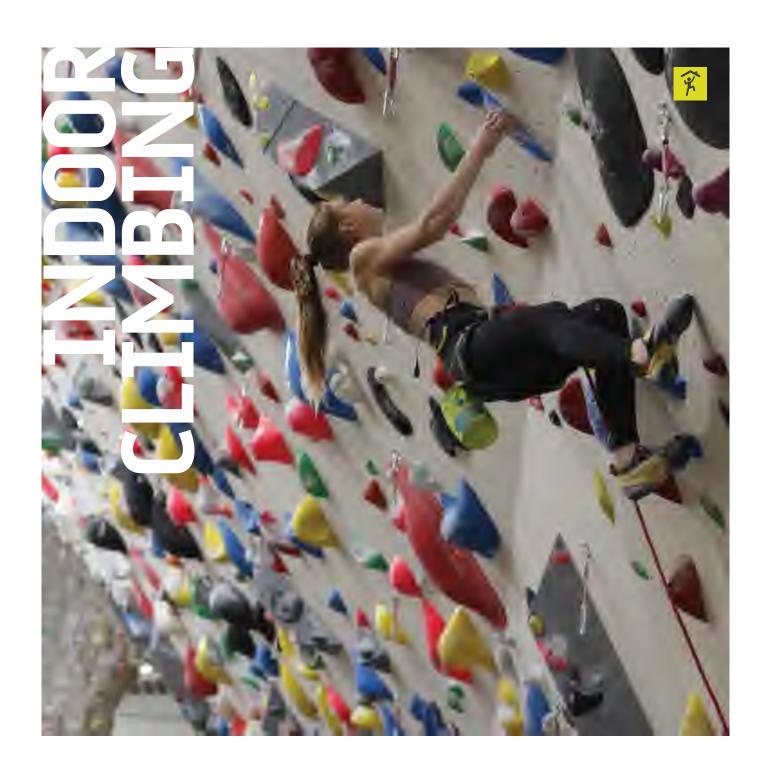
AMBITION 10.0

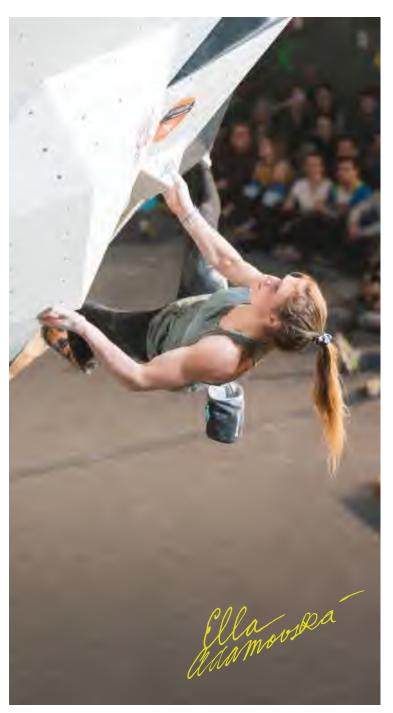
BEGINNER

 ${\it AMBITION~10.0} is designed especially for beginners. Wider diameter combined with SBS sheath offers an impressive performance and long lifespan.$

********	D100TA41S000C • RED
	D100TA42S000C • BLUE







ADAMOVSKÁ

WHAT DOES CLIMBING MEAN TO ME?

That is a tricky question, I definitely needed to give it some thought. I mean, I have been climbing for so long (14 years) that it not only became an integral part of majority of my days, but it also became an integral part of who I am. Of course, it is mostly about freedom, but it also gives me an opportunity to express myself. Climbing has already given me lots of useful life lessons – and I am still learning. I found out that different problems may have different solutions, I learned how to handle my emotions as well as interpersonal communication, and much more. Whether it was all the hard work on the climbing gym, or the peaceful days spent out in the rocks, climbing made me the person I am now. But, above all, climbing, training and the related lifestyle bring me joy.





EN 892 / CE 1019	1	
ROPE DIAMETER	10.2	mm
WEIGHT	68	g/m
NUMBER OF UIAA FALLS	7	
MAX. IMPACT FORCE	8.8	kN
SHEATH SLIPPAGE	0	%_
STATIC ELONGATION	7.2	%
DYNAMIC ELONGATION	32	%
KNOTABILITY	0.9	

INDOOR 10.2i

BEGINNER

A rope with braided core developed especially for top-rope climbing at gyms. Suitable for climbing schools and rentals.

133333333333	D102TI71S000C • RED/YELLOW
4444444	D102TI72S000C • YELLOW/GREY



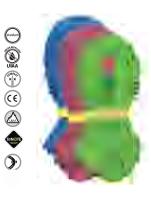
EN 892 / CE 1019	1	
ROPE DIAMETER	10.2	mm
WEIGHT	66	g/m
NUMBER OF UIAA FALLS	5	
MAX. IMPACT FORCE	8.2	kN
SHEATH SLIPPAGE	0	%
STATIC ELONGATION	5.4	%
DYNAMIC ELONGATION	33	%
KNOTABILITY	0.9	

HATTRICK 10.2

BEGINNER

A rope with SECURE technology that offers less UIAA falls but has much larger sheath that ensures durability and a long lifespan of the rope. Perfect choice for rentals and permanent use in the climbing gyms (top-roping).

D102TH41S000C • BLUE
D102TH42S000C • RED



EN 892 / CE 1019	
ROPE DIAMETER 10.5 m	nm
WEIGHT 69 g	/m
NUMBER OF UIAA FALLS 9	
MAX. IMPACT FORCE 9.1 k	N
SHEATH SLIPPAGE 0 %	6
STATIC ELONGATION 6 %	6
DYNAMIC ELONGATION 34 %	6
KNOTABILITY 0.8	

AMBITION 10.5

BEGINNER

Thicker ropes are ideal for beginners because they make falls easier to catch using a belay device and thus they make climbing safer. You can use this rope at crags as well.

fedddddd	D105TA41S000C • RED
and delication of	D105TA42S000C • BLUE
***************	D105TA47S000C • BRIGHT GREEN

INDOOR CLIMBING



EN 892 / CE 1019	1	
ROPE DIAMETER	10	mm
WEIGHT	67	g/m
NUMBER OF UIAA FALLS	9	
MAX. IMPACT FORCE	8.9	kN
SHEATH SLIPPAGE	0.2	%
STATIC ELONGATION	5	%
DYNAMIC ELONGATION	33	%
KNOTABILITY	1	

AMBITION 10.0

BEGINNER

 $\label{lem:ambit10N10.0} A \textit{MBITION 10.0} is designed especially for beginners. Wider diameter combined with SBS sheath offers an impressive performance and long lifespan.$

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D10	NO.	ÖV	Ø	X	XX	

00TA41S000C • RED OOTA42SOOOC • BLUE

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EN 892 / CE 1019	1	
ROPE DIAMETER	10.2	mm
WEIGHT	67	g/m
NUMBER OF UIAA FALLS	11	
MAX. IMPACT FORCE	8.3	kΝ
SHEATH SLIPPAGE	0	%
STATIC ELONGATION	6.9	%
DYNAMIC ELONGATION	33	%
KNOTABILITY	0.8	

AMBITION 10.2 TEFIX®



An new version of a robust rope AMBITION 10.2 enriched with TeFIX® technology. The fact that the core is connected with the sheath prevents the sheath from shifting and provides maximum possible safety in case of the sheath damage. An ideal rope which will guide you through many vertical miles.

	D102AF41S000C • YELLO
*********	D102AF42S000C • ORAN











EN 892 / CE 1019	1	
ROPE DIAMETER	11	mm
WEIGHT	79	g/m
NUMBER OF UIAA FALLS	16	
MAX. IMPACT FORCE	9.1	kN
SHEATH SLIPPAGE	0.4	%
STATIC ELONGATION	5.3	%
DYNAMIC ELONGATION	31	%
KNOTABILITY	1	

TRUST 11.0



Massive, safe rope with extremely long lifespan. Designed for heavy usage in rope training centers and climbing schools.

100	- 48

D110TT41S000C • RED D110TT42S000C • YELLOW





EN 892 / CE 1019	1	
ROPE DIAMETER	10.4	mm
WEIGHT	72	g/m
NUMBER OF UIAA FALLS	8	
MAX. IMPACT FORCE	8.2	kN
SHEATH SLIPPAGE	0.1	%
STATIC ELONGATION	9.1	%
DYNAMIC ELONGATION	35	%
KNOTABILITY	1	

INDOOR 10.4

BEGINNER

A rope has a braided core, developed especially for top-rope climbing at gyms. Suitable for climbing schools and rentals.

D104		
D104	医感 集 集	

D104TI41S000C • BLUE/GREEN
D104TI42S000C • RED/GREY



EN 892 / CE 1019	1
ROPE DIAMETER	11.4 mm
WEIGHT	84 g/m
NUMBER OF UIAA FALLS	20
MAX. IMPACT FORCE	9.2 kN
SHEATH SLIPPAGE	0.3 %
STATIC ELONGATION	6.4 %
DYNAMIC ELONGATION	32 %
KNOTABILITY	1

TRUST 11.4

BEGINNER

Large diameter safe rope, with extremely long lifespan. Designed for heavy usage in rope training centers and climbing schools.

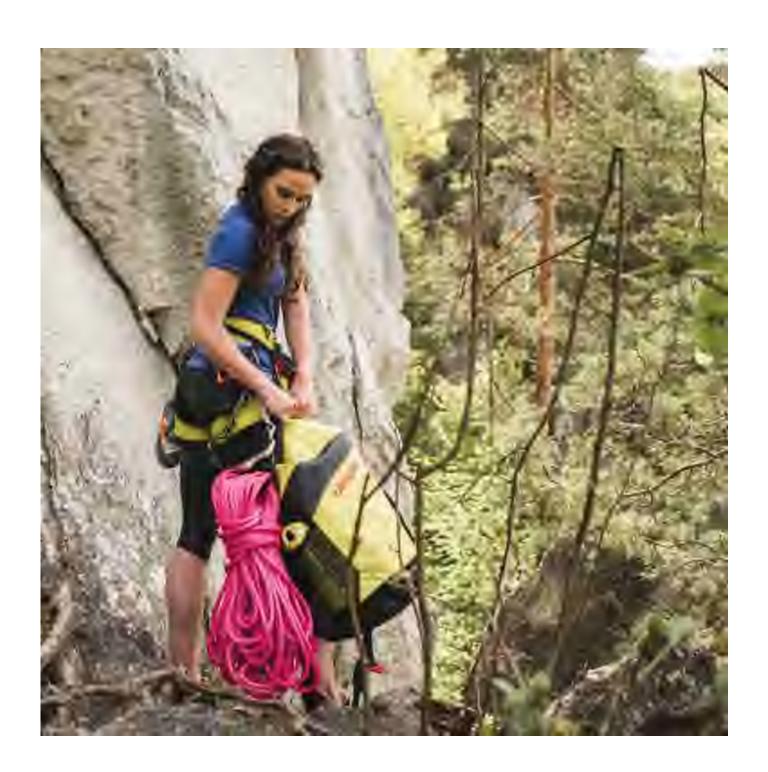




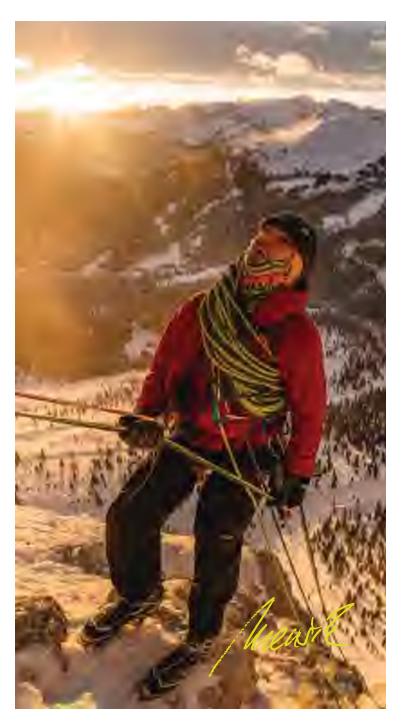
TENDON GEAR BAG

Backpack with volume of 45 l designed especially for climbers. The zipper, which encircles almost the whole edge enables an easy access into the main chamber, which contains more pockets and hanging loops for your gear. Upper part of the backpack contains a handy pocket for a guidebook or other small pieces of equipment. The back system includes removeable mat for sitting. The anatomically shaped shoulder straps, adjustable sternum strap, hip belt, and padded back ensure that the backpack fits comfortable on your back, even during a long approach. If you completely fill the main chamber, you can always fasten your rope to the top of the backpack using tightening straps. The backpack includes a rope tarp.

- Top material: robust polyester 1000D with PU coating and water-resistant treatment
- Volume 45 l
- Adjustable sternum strap and hip belt
- Padded back
- Includes coated rope tarp
- The rope can be fastened on top of the backpack using tightening straps







MENŠÍK

WHAT DOES CLIMBING MEAN TO ME?

For me, climbing is to clamber up somewhere, where I can see the world from a totally different perspective. And it is also the joy and excitement at movement and all those easy and difficult, smooth and tortuous moments.

















EN 892 / CE 1019	1/2	⊚	
ROPE DIAMETER	7.6	7.6	mm
WEIGHT	38	38	g/m
NUMBER OF UIAA FALLS	11	28	
MAX. IMPACT FORCE	5.3	8.4	kΝ
SHEATH SLIPPAGE	-0.3	-0.3	%
STATIC ELONGATION	10.10	6.10	%
DYNAMIC ELONGATION	37	32	%
KNOTABILITY	1	1	

MASTER PRO 7.6

EXPERT

Master PRO 7.6 mm is the first simple braided half and double rope, whose parameters are virtually unbeatable by any other rope in this category. Master PRO 7.6 mm is the only rope with diameter of less than 8 mm in the market which has a large number of UIAA falls (11 falls as a half rope, 28 falls as a double rope) and very low impact force at the same time. With the weight of 38 g/m and 7.6 mm diameter the rope is suitable for all kinds of climbers.

D076TP44C000C •	GREEN
D076TP45C000C •	ORANGE



EN 892 / CE 1019	⊚	
ROPE DIAMETER	7	mm
WEIGHT	34	g/m
NUMBER OF UIAA FALLS	14	
MAX. IMPACT FORCE	8.9	kΝ
SHEATH SLIPPAGE	0	%
STATIC ELONGATION	3.6	%
DYNAMIC ELONGATION	_ 33	%
KNOTABILITY	0.9	

MASTER 7.0 EXPERT

The lightest twin rope in the world. Only 34 grams per meter and still perfectly safe. Ideal for extreme climbing projects or as an ultra-light rope for ski-tourists. You won't even notice this rope in your bag due to its weight and size. Certified for use as a twin rope exclusively.

	D070TM41C000C • RED
33355555	D070TM42C000C • BLUE



EN 892 / CE 1019	1/2	@	
ROPE DIAMETER	7.9	7.9	mm
WEIGHT	38	38	g/m
NUMBER OF UIAA FALLS	5	16	
MAX. IMPACT FORCE	5.7	8.5	kN
SHEATH SLIPPAGE	0	0	%
STATIC ELONGATION	10.5	8.0	%
DYNAMIC ELONGATION	38	35	%
KNOTABILITY	0.9	0.9	

ALPINE 7.9 EXPERT

An ideal choice for various activities in the mountains. Mountain guides, skitourists as well as mountaineers will love its low weight of 39 g. We offer this rope even in short variants of 20 and 30 m.

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333333	DO79TL42SOOOC • YELLOV

MOUNTAINEERING AND ALPINISM



EN 892 / CE 1019	1	1/2	⊚
ROPE DIAMETER	8.6	8.6	8.6 mm
WEIGHT	50	50	50 g/m
NUMBER OF UIAA FALLS	5	13	30
MAX. IMPACT FORCE	9.9	7.2	11.5 kN
SHEATH SLIPPAGE	0.2	0.2	0.2 %
STATIC ELONGATION	5.7	5.8	3.9 %
DYNAMIC ELONGATION	30	22	23 %
KNOTABILITY	0.8	0.8	0.8

MASTER 8.6 EXPERT

The thinnest single rope we offer. Master 8.6 is the perfect rope for glacier crossings, alpine ascents, and anything you do in the mountains where you only want a single rope.

D086TM42C000C • PINK
D086TM43C000C • TURQUOISE

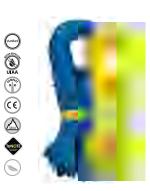


EN 892 / CE 1019	1/2	⊚
ROPE DIAMETER	7.8	7.8 mm
WEIGHT	38	38 g/m
NUMBER OF UIAA FALLS	5	16
MAX. IMPACT FORCE	5.7	8.5 kN
SHEATH SLIPPAGE	0	0 %
STATIC ELONGATION	10.5	8 %
DYNAMIC ELONGATION	38	35 %
KNOTABILITY	0.9	0.9

MASTER 7.8 ADVANCED

A light weight quality rope, for those who feel at home in the mountains. The Complete Shield technology protects the rope from water and dirt.

XXXXXXXX	D078TD42S000C • BLUE
a alang da	D078TD44S000C • RED



EN 892 / CE 1019	1/2	@	
ROPE DIAMETER	8.4	8.4	mm
WEIGHT	41	41	g/m
NUMBER OF UIAA FALLS	5	12	
MAX. IMPACT FORCE	5.1	9.2	kΝ
SHEATH SLIPPAGE	0	0	%
STATIC ELONGATION	5.4	5.3	%
DYNAMIC ELONGATION	31	27	%
KNOTABILITY	0.8	0.8	

LOWE 8.4 ADVANCED

If you don't want extremely thin rope but you still aim for the lowest weight possible? There is no better option than this one. Our LOWE technology lowers the weight of the rope keeping an ideal diameter of 8.4. You can save 0.5 kg with sixty meter double ropes. Nothing better!

D084TW41S000C • BLUE
D084TW42S000C • YELLOW





EN 892 / CE 1019	1/2	@	
ROPE DIAMETER	8.5	8.5	mm
WEIGHT	46	46	g/m
NUMBER OF UIAA FALLS	10	25	
MAX. IMPACT FORCE	5.3	8.6	kΝ
SHEATH SLIPPAGE	0.1	0.1	%
STATIC ELONGATION	_ 7	7	%
DYNAMIC ELONGATION	32	30	%
KNOTABILITY	0.8	0.8	

MASTER 8.5

BEGINNER

You will choose this rope if you seek the best ratio of lifespan and a diameter. Perfect as you first rope for mountaineering. Complete Shield coating is a matter-of-course.

	D085TF41S000C • GREEN/YELLOW
manne	D085TF42S000C • KHAKI/BLUE



EN 892 / CE 1019	1/2	
ROPE DIAMETER	8.5	mm
WEIGHT	45	g/m
NUMBER OF UIAA FALLS	9	
MAX. IMPACT FORCE	5.4	kΝ
SHEATH SLIPPAGE	0.1	%
STATIC ELONGATION	7.6	%
DYNAMIC ELONGATION	38	%
KNOTABILITY	1	

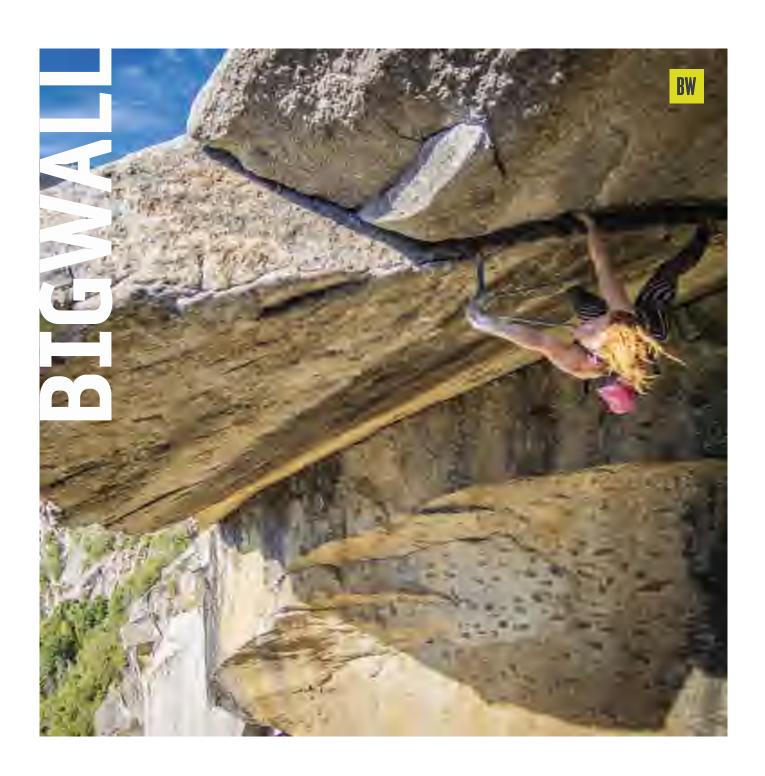
AMBITION 8.5

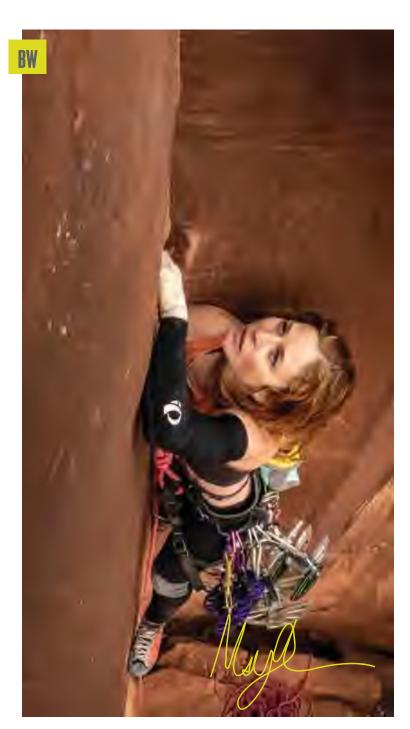


A lightweight half rope with great versatility and very high durability. All its technical specifications are designed to increase safety and broaden the range of suitable usage.









EDEN

WHAT DOES CLIMBING MEAN TO ME?

What does climbing mean to me? It's hard to put what climbing means to me in a few short words but I'd say climbing to me means fun and freedom. I've had the most fun in my life outside on small rocks, and tall walls. Rock climbing has given me the ability and freedom to be able to go places I didn't think were possible to access. Climbing has also given me the feeling of freedom and perfection during the 'flow state' (a calm focused feeling while climbing at your limit). Rock climbing is the funnest passion I've discovered and it allows me to free myself from the rest of life and enjoy the challenge of playing on the rocks. Why do I climb? Why do I like beautiful sunsets, margaritas, good laughs, shiny gear, and kittens? I'll never truly be able to explain the joy I find in climbing. I love the struggle, the community, the challenge, and growth I experience in this sport, and all that good stuff just translates over into every aspect of my life.





EN 892 / CE 1019	1	
ROPE DIAMETER	9.7	mm
WEIGHT	61	g/n
NUMBER OF UIAA FALLS	8	
MAX. IMPACT FORCE	8.2	kN
SHEATH SLIPPAGE	0	%
STATIC ELONGATION	8.0	%
DYNAMIC ELONGATION	35	%
KNOTABILITY	0.8	

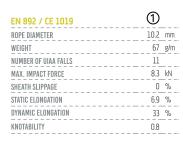
MASTER 9.7 TEFIX®

EXPERT

Technologies keep advancing, the favorite MASTER 9.7 now with TeFIX® technology. Even more safe and durable than its older brother. The permanent connection of core and sheath ensures the sheath cannot slip. Check the fresh

College College	D097MF41S000C • TURQUOISE
ALCOHOLD TO SERVICE	D097MF42S000C • PINK





AMBITION 10.2 TEFIX® ADVANCED

An new version of a robust rope AMBITION 10.2 enriched with TeFIX® technology. The fact that the core is connected with the sheath prevents the sheath from shifting and provides maximum possible safety in case of the sheath damage. An ideal rope which will guide you through many vertical miles.





EN 892 / CE 1019	1	
ROPE DIAMETER	9.7	mm
WEIGHT	61	g/m
NUMBER OF UIAA FALLS	5	
MAX. IMPACT FORCE	7.6	kN
SHEATH SLIPPAGE	0	%
STATIC ELONGATION	9.0	%
DYNAMIC ELONGATION	30	%
KNOTABILITY	1	

HATTRICK 9.7

ADVANCED

If you prefer small diameters but you don't want to underestimate the safety, there is no better option than Hattrick 9.7 or Master TeFIX® 9.7. SBS construction of the sheath together with a SECURE technology make this rope safe, long-lasting and prevents the sheath from shifting.

The second second second	D097TH41S000C • GREEN/BLU
STATE OF STREET	D097TH42S000C • RED/BLUE



EN 892 / CE 1019	1
ROPE DIAMETER	10.2 mm
WEIGHT	66 g/m
NUMBER OF UIAA FALLS	5
MAX. IMPACT FORCE	8.2 kN
SHEATH SLIPPAGE	0 %
STATIC ELONGATION	5.4 %
DYNAMIC ELONGATION	33 %
KNOTABILITY	0.9

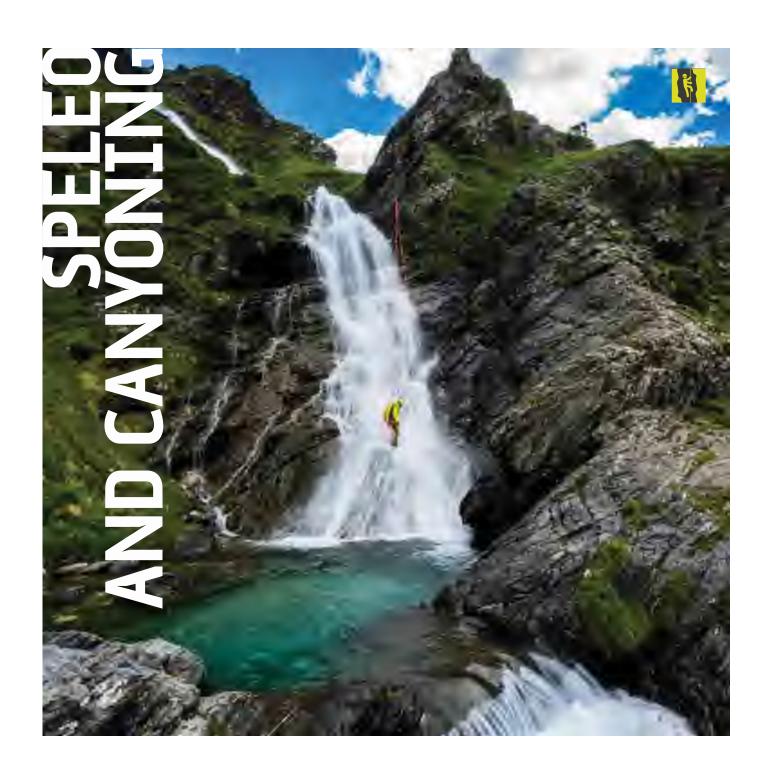
HATTRICK 10.2

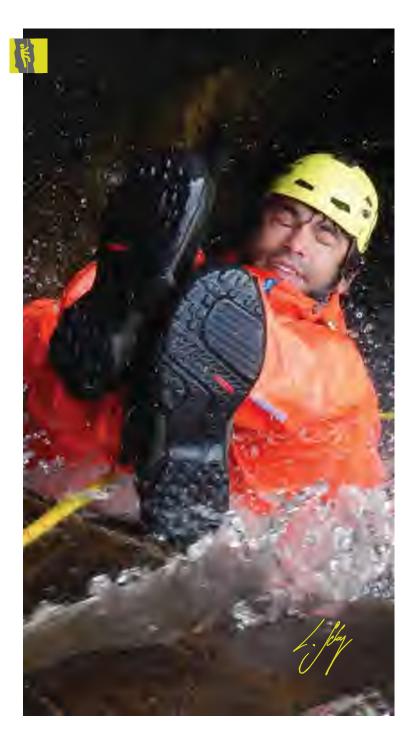
BEGINNER

A rope with SECURE technology that offers less UIAA falls but has much larger sheath that ensures durability and a long lifespan of the rope. Perfect choice for rentals and permanent use in the climbing gyms (top-roping).









SCHALLER SCHALLER

WHAT DOES CANYONING MEAN TO ME?

Canyoning...following the water stream from up to down...feeling the cold water, the fresh air, the view and diving into the pure nature with nothing else than just with some ropes and some climbing gear...that's freedom...my little world...

SPELEO AND CANYONING







CE 1019

IAMETER	10.2*	mm
VEIGHT	60	g/m
IUMBER OF FALLS	20**	min.
ELATIVE MASS OF SHEATH	47	%
HEATH SLIPPAGE	0	%
LONGATION (50 - 150 KG)	2.6	%
HRINKAGE	0	%
TRENGTH	23	kN
IIN.STRENGTH WITH KNOTS	12	kN
ISED MATERIAL	PA/PPV	
YPE	-	
LOATING	Yes	

SALAMANDER 10.2

The best choice among the canyoning ropes. Light, floating rope with our SECURE technology keeps its outstanding qualities for a long time. Its construction and applied materials help to minimize shrinking of the rope in wet conditions. It has stronger, coarser sheath and thanks to the production technology, this rope is very static, low stretch.

 ** weight 55 kg, fall factor 1 * tested according to EN 1891 type B except material and number of falls

C102TS41S000C • YELLOW/RED • SALAMANDER











FN1891 / CF1019

LINIOSI / CLIOIS		
DIAMETER	9	mm
WEIGHT	59	g/n
NUMBER OF FALLS	16	mir
RELATIVE MASS OF SHEATH	44	%
SHEATH SLIPPAGE	0.2	%
ELONGATION (50 - 150 KG)	3,6	%
SHRINKAGE	1	%
STRENGTH	28	kN
MIN.STRENGTH WITH KNOTS	18	kN
USED MATERIAL	PA	
ТҮРЕ	A	

CANYON DRY 9.0

New polyamide (nylon) rope with a smaller diameter of 9 mm and Complete Shield dry treatment which coats core strands and sheath fibers. This reduces water absorpsion and increases abrasion resistance considerably. The highly visible colour guarantees that the user has under control any situation where bad conditions prevail. The rope is flexible and retains its softness even after a long period of use. CANYON DRY 9.0 will be especially appreciated by experienced canyoneers who want a quick and smooth descent, and who care about every gram of weight.

CO9OTD41COOOC • RED







CE 1019

CE 1015		
DIAMETER	10*	mm
WEIGHT	61	g/m
NUMBER OF FALLS	20**	min.
RELATIVE MASS OF SHEATH	47	%
SHEATH SLIPPAGE	-0.2	%
ELONGATION (50 -150 KG)	3.2	%
SHRINKAGE	1.7	%
STRENGTH	18	kN
MIN.STRENGTH WITH KNOTS	12	kN
USED MATERIAL	PA/PPV	
TYPE	-	
FLOATING	Yes	

CANYON GRANDE 10.0

This rope is easily knotted and soft even after repeated immersion into the water. Its bright colours contrast well with the colour of the water, it is highly resistant to abrasion and offers increased water-resistance. Thanks to the materials used, the rope has lower absorbability and floats on the surface.

** weight 55 kg, fall factor 1

* tested according to EN 1891 type B except min. tenacity and material

🌇 C100TC41S000C • YELLOW • CANYON GRANDE











EN 1891 / CE 1019

DIAMETER	10	mm
WEIGHT	66	g/m
NUMBER OF FALLS	20	min.
RELATIVE MASS OF SHEATH	38	%
SHEATH SLIPPAGE	-0.3	%
ELONGATION (50 -150 KG)	2.5	%
SHRINKAGE	0.8	%
STRENGTH	30	kN
MIN.STRENGTH WITH KNOTS	18	kN
USED MATERIAL	PA	
TYPE	Α	

CANYON WET 10.0

Rope variation which doesn't float on water due to materials used (PA) meets requirement of EN 1891 type A.

C100TW48W000C • ORANGE • CANYON WET











EN 1891 / CE 1019

9	10	10.5	11	mm
48	63	72	77	ġ/n
8	16	20	20	min
42	40	46	42	%
-0.3	0	0.1	2	%
4.1	3.7	3	3.3	%
1	1.8	1.4	1.8	%
19	27	28	34	kΝ
12	16	18	19	kΝ
PA	PA	PA	PA	
В	Α	A	A	
	48 8 42 -0.3 4.1 1 19 12 PA	48 63 8 16 42 40 -0.3 0 4.1 3.7 1 1.8 19 27 12 16 PA PA	48 63 72 8 16 20 42 40 46 -0.3 0 0.1 4.1 3.7 3 1 1.8 1.4 19 27 28 12 16 18 PA PA PA	48 63 72 77 8 16 20 20 42 40 46 42 0.3 0 0.1 2 4.1 3.7 3 3.3 1 1.8 1.4 1.8 19 27 28 34 12 16 18 19 PA PA PA PA

SPELEO 9.0 – 11.0







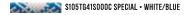


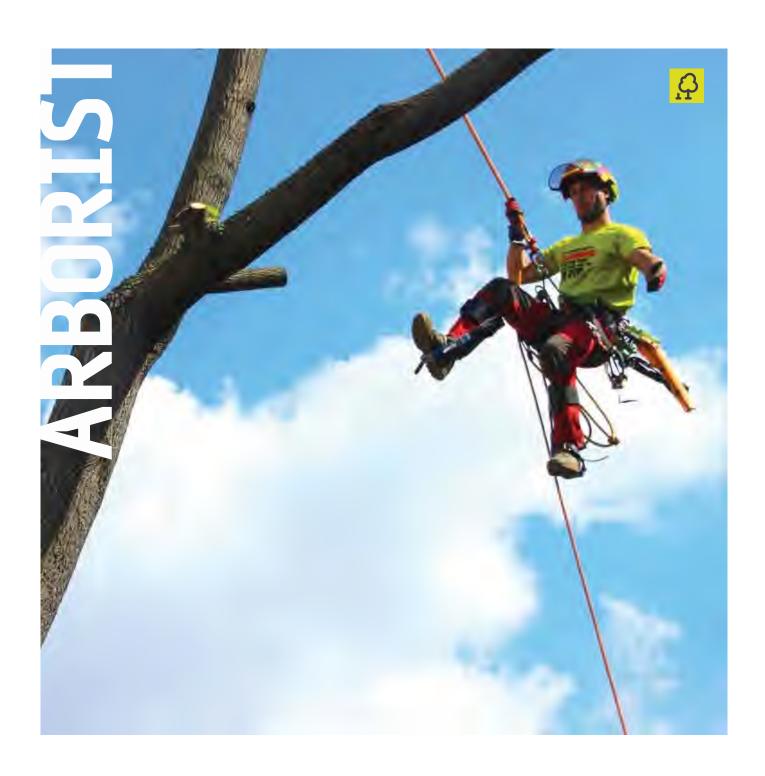
EN 1891 / CE 1019

DIAMETER	10.5	mm
WEIGHT	76	g/m
NUMBER OF FALLS	12	min.
RELATIVE MASS OF SHEATH	51	%
SHEATH SLIPPAGE	0.5	%
ELONGATION (50 - 150 KG)	2.7	%
SHRINKAGE	1	%
STRENGTH	34	kN
MIN.STRENGTH WITH KNOTS	18	kN
USED MATERIAL	PES/PA	
ТҮРЕ	Α	

SPELEO 10.5 SPECIAL

Low stretch, high static strength, and exceptional resistance to abrasion are the qualities most valued among cavers. Polyester sheath is built to endure higher thermal stress during abseiting on 10.5 special rope.











EN 1891 / CE 1019

DIAMETER	11	mm
WEIGHT	88	g/m
NUMBER OF FALLS	20	min
RELATIVE MASS OF SHEATH	57	%
SHEATH SLIPPAGE	0	%
ELONGATION (50 – 150 KG)	3.1	%
SHRINKAGE	0.7	%
STRENGTH	30	kΝ
MIN.STRENGTH WITH KNOTS	18	kΝ
USED MATERIAL	PES/PA	
TYPE	A	

TIMBER EVO 11.0

The lightest rope in the Tendon arbor line. Timber Evo 11.0 is a rope with excellent handling and smooth ascent and descent because of the 24 strand construction and specially designed sheath.

L110TT41S000C • BRIGHT YELLOW Spliced Loop Available - on Request





EN 1891 / CE 1019

DIAMETER	11.5	mm
WEIGHT	90	g/m
NUMBER OF FALLS	20	min.
RELATIVE MASS OF SHEATH	54	%
SHEATH SLIPPAGE	0.5	%
ELONGATION (50 – 150 KG)	3	%
SHRINKAGE	1	%
STRENGTH	30	kΝ
MIN.STRENGTH WITH KNOTS	18	kΝ
USED MATERIAL	PES/PA	
TYPE	Α	

TIMBER EVO 11.5

This improved version of the Timber Evo 11.5 working rope is characterized by a better abrasion resistance and consequently a longer service life thanks to the new construction of the sheath. 24 strand double braid construction makes this an excellent rope for professional arborists.

L115TE42S000C • ORANGE/YELLOW Spliced Loop available - on request





EN 1891 / CE 1019

DIAMETER	12.5	mm
WEIGHT	104	g/m
NUMBER OF FALLS	20	min.
RELATIVE MASS OF SHEATH	48	%
SHEATH SLIPPAGE	0	%
ELONGATION (50 -150 KG)	3	%
SHRINKAGE	0.6	%
STRENGTH	39	kN
MIN.STRENGTH WITH KNOTS	22	kN
USED MATERIAL	PES/PA	
TYPE	Α	

TIMBER EVO 12.5

The combination of polyamide (nylon) core and polyester sheath lends to, among other features, an excellent abrasion resistance and also high strength in the ropes of the Timber Evo series. The 12.5 mm diameter guarantees good control during handling. Excellent for climbing as well as safety rigging line where some stretch is desired.

L125TT41S000C • BRIGHT ORANGE
SPLICED LOOP AVAILABLE - ON REQUEST





DIAMETER								-			 15	mm
WEIGHT					_			_	_		172	g/m
STRENGTH								_			61	kN
USED MATERIAL								_			PES	
	DIAMETER Weight Strength USED Material	WEIGHT STRENGTH	WEIGHT	WEIGHT 172 STRENGTH 61								

LOWERING ROPE 15.0

Lowering rope 15 mm of a new construction with increased strength and reduced diameter. Very good handling during lowering and braking of loads.

L150TT41S000C • YELLOW/BLACK

TIMBER SET

The Set is completed with a throwline, an accessory cord, a throw bag, prusiks and harness, all in high quality and in colours that are markedly visible in treetops.

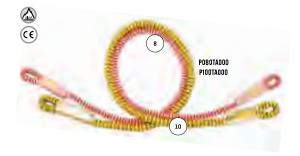


EN 813 / EN 3	58 / CE 1019
Timber sit	WEIGTH
Size M-XL	1 780 g
Size XXL	1 820 g
XPTH-030	

TIMBER SIT

The Tendon Timber Sit is a fully adjustable arborist harness with a wide padded back and leg loops, making it really comfortable even for long days high in the trees. The quick release leg and waist buckles make putting it on and taking if off a snap. It comes equipped with one sliding ring on the bridge, two metal side attachment points for lanyard or flip line and three gear loops in the back.

Complies with EN 358 and EN 813.



PRUSIKS 8 AND 10 MM

EN 566 / EN 795B / CE 1019

The use of the PES/TECHNORA material combination results in a better thermal and mechanical resistance of the sheath. Supplied in any length or as prusiks made to measure with sewn eyes.



ACCESSORY CORD



CE 1019			
ROPE DIAMETER	8	10	mm
WEIGHT	54.3	73	g/m
TENACITY	20	25	kN
USED MATERIAL	PES/TE	CHNOR	Α



(€



XTIMBERBAG300	/ XTIMBERBAG350	/XTIMBERBAG400
300 g	350 g	400 g

TIMBER 3



OPE DIAMETER	3	mm
WEIGHT	2.5	g/m
TENACITY	0.8	kN
USED MATERIAL	PE	

A030TT41S000C

















EN 1891 / CE 1019

DIAMETER	9	10	10.5	11	12	13	mm
WEIGHT	50	69	72	80	92	109	g/m
NUMBER OF UIAA FALLS	15	20	20	20	20	20	min.
RELATIVE MASS OF SHEATH	49	38	35	39	35	46	%
SHEATH SLIPPAGE	0.4	0.1	0	0.3	4	0	%
ELONGATION (50 - 150 KG)	5	4.1	3.4	3.7	3.2	3	%
SHRINKAGE	0.6	2	1.9	1.9	1.8	1.1	%
STRENGTH	23	31	32	33	42	42	kN
MIN.STRENGTH WITH KNOTS	13	17	18	20	25	27	kN
USED MATERIAL	PA	PA	PA	PA	PA	PA	
TYPE	В	Α	Α	A	A	A	

SEWN TERMINATION IS AVAILABLE - ON REQUEST

STATIC 9.0 - 13.0

This excellent rope with low elongation and high static strength is intended primarily for work at height and for securing people above vertical drops. The thicker the diameter, the stronger the rope.

and therein	L100TS41S000C • WHITE
	L090TS42S000C • RED
	L105TS43S000C • BLUE













EN 1891 / CE 1019

n
m
n.

SEWN TERMINATION IS AVAILABLE - ON REQUEST

SECURE 10.5, SECURE 11.0

A rope for any application where the sheath and the core may suffer damage. When using this rope you will significantly increase your safety margins, in cases where mechanical damage to the rope due to sharp edges or falling objects. Thanks to the unique sandwichtype construction of braided layers and the use of specially developed staple fibers, the rope is able to hold the suspended person or load even in the event of considerable sheath or core damage. Even if the rope is heavily damaged, the suspended person has enough time to abseil to the ground or to a safe anchor point.





L110TE44S000C • BLUE L110TE57S000C • BLACK

PATENT PENDING







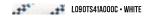


EN 1891 / CE 1019

DIAMETER	9	mm
WEIGHT	61	g/m
NUMBER OF FALLS (MIN.)	5	min.
RELATIVE MASS OF SHEATH	41	%
SHEATH SLIPPAGE	0	%
ELONGATION (50 – 150 KG)	3.3	%
SHRINKAGE	1.9	%
STRENGTH	24	kN
MIN.STRENGTH WITH KNOTS	15	kΝ
USED MATERIAL	PA	
TYPE	Α	

STATIC 9.0 TYPE A

Thanks to the unique construction and the stateof-the-art technological finishing, the static rope offers a strength higher than 22 kN with a falling mass of 100 kg (in comparison with the standard falling mass of 80 kg for type B ropes). The strength of the rope with knots exceeds 15 kN for a period of 3 minutes without any damage to the core and the sheath (type B ropes are tested for 12 kN for a period of 3 minutes). This is an advantage which workers working at heights and rescue teams are eager for, because having a stronger rope in critical situations with full outfit and gear brings them to a higher standard.













EN 1891 / CE 1019 / NFPA 1983 2017 EDITION

PARAMETERS ACCORDING TO EN 1891

			-	
DIAMETER	10.5	11	12	mm
WEIGHT	74	83	87	g/m
NUMBER OF FALLS (MIN.)	20	20	20	min.
RELATIVE MASS OF SHEATH	34	33	35	%
SHEATH SLIPPAGE	0	0	4	%
ELONGATION (50 - 150 KG)	3.6	3.5	3.2	%
SHRINKAGE	0.3	4.5	1.8	%
STRENGTH	32	42	42	kN
MIN.STRENGTH WITH KNOTS	17	15	25	kN
USED MATERIAL	PA	PA	PA	
TYPE	A	Α	Α	

STATIC NFPA 10.5 - 12.0

The excellent ropes with low elongation and high static strength are intended primarily for work at hight and for securing people above vertical drops. Recommended use are rescue operations, work positioning and military and police use. Occasional use for NFPA certificated ropes meet the life safety rope requirements of NFPA 1983 Standard on fire service life safety rope and



equipement for emergency services, 2017 edition.











EN 1891 / CE 1019 / NFPA 1983 2017 EDITION

PARAMETERS ACCORDING TO NFPA

DIAMETER	10.5	11	12	mr
DIAMETER	0.413	0.433	0.472	in
MBS*	32	40.5	42	kN
MBS*	7194	9 105	9 442	lbs
WEIGHT	74	83	87	g
ELONGATION AT 10% MBS	8.6	8.4	7.4	%
ELONGATION AT 1.35 KN (300 LBF	2.8	3.6	2.3	%
ELONGATION AT 2.70 KN (600 LBF	F) 7.1	6.2	4.7	%
ELONGATION AT 4.40 KN (1000 LI	BF) 10.7	9.5	7.8	%
NFPA 1983 2017 EDITION	Yes	Yes	Yes	
CLASSIFIED	Technical use	Gene	ral use	

STATIC NFPA 10.5 - 12.0

The excellent ropes with low elongation and high static strength are intended primarily for work at hight and for securing people above vertical drops.

Recommended use are rescue operations, work positioning and military and police use. Occasional use for NFPA certificated ropes meet the life safety rope requirements of NFPA 1983 Standard on fire service life safety rope and equipement for emergency services, 2017 edition.

















EN 1891 / CE 1019

DIAMETER	9	10	10.5	11	12	mm
WEIGHT	50	69	72	80	92	g/m
NUMBER OF FALLS (MIN.)	15	20	20	20	20	min.
RELATIVE MASS OF SHEATH	49	38	35	39	35	%
SHEATH SLIPPAGE	0.4	0.1	0	0.3	4	%
ELONGATION (50 -150 KG)	5	4.1	3.4	3.7	3.2	%
SHRINKAGE	0.6	2	1.9	1.9	1.8	%
STRENGTH	23	31	32	33	42	kN
MIN.STRENGTH WITH KNOTS	13	17	18	20	25	kN
USED MATERIAL	PA	PA	PA	PA	PA	
TYPE	В	A	. A	A	A	

MILITARY 9.0 - 12.0

Excellent ropes with low elongation and high static strenght are designed for army and police.

100	L100TS44S000C • BLACK
	L100TS45S000C • GREEN
	L100TS46S000C • CAMOUFLAGE
A COLUMN	L100TS4KS000C • DESERT STOR
	L100TS47S000C • SOLID BLACK

SEWN TERMINATION IS AVAILABLE ON SOME TYPES - ON REQUEST









EN 1891 / CE 1019

DIAMETER	10	11	mn
WEIGHT	65	80	g/n
NUMBER OF FALLS (MIN.)	10	20	mir
RELATIVE MASS OF SHEATH	50	48	%
SHEATH SLIPPAGE	0.1	0.2	%
ELONGATION (50-150 KG)	3.3	2.5	%
SHRINKAGE	1.9	-2	%
STRENGTH	33	44	kΝ
MIN.STRENGTH WITH KNOTS	15	20	kN
USED MATERIAL	Aramid/PA	Aramid	/PA
TYPE	В	B_	

ARAMID 10.0, 11.0

A unique rope with aramid sheath and polyamide core, which features high firmness and increased resistance to cutting and abrasion. The rope is resistant to naked flame and radiant heat of up to 400 °C for short periods of time! This characteristic will be appreciated in particular by special police and army emergency squads for quick descent from a helicopter, when ordinary ropes are not able to tackle the heat energy.

* tested according to EN 1891 except impact force

L100TA42S000C • BLACK
L110TA41S000C • BLACK









EN 1891 / CE 1019

DIAMETER	11	mm
WEIGHT	80	g/m
NUMBER OF FALLS (MIN.)	20	min.
RELATIVE MASS OF SHEATH	39	%
SHEATH SLIPPAGE	0.3	%
ELONGATION (50 – 150 KG)	3.7	%
SHRINKAGE	1.9	%
STRENGTH	33	kN
MIN.STRENGTH WITH KNOTS	20	kN
USED MATERIAL	PA	
TYPE	A	

REFLECTIVE 11.0

The newly developed rope with reflection control weaving reflects a beam of direct light, making it easier to identify the rope in the dark and in poor lighting conditions. The rope is particularly useful for rescue work, speleology, diving and as a tracing









CE 1019

DIAMETER	10*	11**	m
WEIGHT	68	84	g/
NUMBER OF FALLS (MIN.)	5	5	mi
RELATIVE MASS OF SHEATH	36	41	%
SHEATH SLIPPAGE	0	0.5	%
ELONGATION (50 – 150 KG)	3.5	3.6	%
SHRINKAGE	2.3	3	%
STRENGTH	24	26	k١
MIN.STRENGTH WITH KNOTS	13	15	k١
USED MATERIAL	PA/Steel	PA/S	tee
TYPE	В	A	

FORCE 10.0, 11.0

A special rope which makes use of a technology of combination of materials and the rope construction itself. There is internal sheath made of stainless steel wires in the rope. The product for use in extremely severe conditions (for instance rescuers, firemen, policemen and other special forces) due to its increased resistance to cutting.

* tested according to EN 1891 type B excepted material and marking ** tested according to EN 1891 type A excepted material and marking

L100TF41S000C • BLACK

L110TF41S000C • BLACK

PATENT PENDING

FAST ROPE

ROPE FOR RAPID DEPLOYMENT FROM HELICOPTERS FAST ROPE (2) AND VERSION FOR TRANSPORTATION AND EVACUATION F.R.I.E.S. (1)

In the production of the unique Fast Rope, special PA BCF fibres are used which give superior protection during descending, having high resistance to wear and rupture. The rope with a diameter of 44 mm and a unique construction offers the user good control during descending without additional belay. We are able to supply our key military clients in many countries with Fast Ropes also in diameters 40 mm and 32 mm.

ROPE DIAMETER, PRE-TENSIONED ACCORDING TO B	N ISO 2307 (245 KG)	44 4	32	mm
ROPE DIAMETER, LOOSE (ZERO TENSION)		50 4	6 38	mm
ROPE WEIGHT, PRE-TENSIONED ACCORDING TO EN	2307 (245 KG)	77 6	0 42	kg/100 m
ROPE WEIGHT, LOOSE (ZERO TENSION)		96 7	5 52	kg/100 m
MINIMUM ROPE STRENGTH WITH SPLICED EYE	12 0	00 10 00	7 500	kg
MINIMUM ROPE STRENGTH WITH SEWN LOOP WITH	TEXTILE PROTECTION 6 C	00 6 00	0 6 000	kg
MINIMUM ROPE STRENGTH WITH STEEL TERMINATI	ON 3 C	00 3 00	0	kg
MINIMUM STRENGTH OF SUSPENSION SLING (F.R.I.	E.S.) 2 2	50 2 25	0 2 250	kg
ROPE ELONGATION, PRE-TENSIONED ACCORDING TO	D EN ISO 2307 (245 KG)	25 2	5 25	%

STANDARD TYPE OF TERMINATIONS

- A) Metal multifit termination
- B) Metal termination with connecting pin
- C) Short termination (sewn loop) with textile protection
- D) Spliced loop with textile protection



- **spliced eye** with high strength and resistance, for frequent straining and loading (e.g. in practising).
- eye made of express slings (ST-short termination) lightweight and especially short eye with high strength. Easy examination of seams and express slings after removal of the protector. In emergency the rope may be simply cut at the termination.
- eye with metal termination (MT-metal termination) for different types of metal connectors and hooks.











Aramid accessory cord has an extremely high strength in spite of having the same weight as a standard PA accessory cord. You will appreciate also its low elongation and maintenance of high strength even with damaged sheath thanks to the braided core made of 100% aramid.

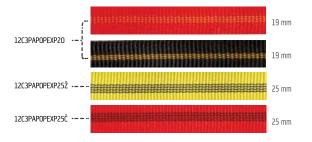
POWER CORDS



TUBULAR TAPE

WIDTH	TENACITY
19 mm	15 kN
25 mm	20 kN

A tubular tape for different applications, such as connection of a chest harness and a sit harness. Different widths, strengths and colours are available.





Duck a rope clamp/positioner made by Kong, designed for ropes with diameters between 8 and 13 mm. The first and only device that may be used also with 10 to 15 mm wide flat and tubular slings. Due to its small dimensions, it is possible to use Duck with one hand only, the large diameter enables the karabiner to rotate. Intended for ascending activities, daisy chain positioning, self-belaying.

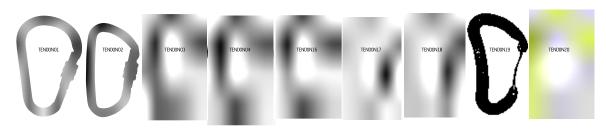
ASCENDERS AND DESCENDER € 🔊 TENDON13 TENDON09 TENDON14 TENDON15

ASCENDI	ERS TENDON 13	ASCENDERS TENDON 14	ASCENDERS TENDON 15	FIGURE 8 DESCENDER TENDON 09
WEIGHT / g	160	225	225	110
	EN 567	EN 567	EN 567	EN 15151-2

CARABINERS







CARABINERS	TENDON 01	TENDON 02	TENDON 03	TENDON 04	TENDON 16	TENDON 17	TENDON 18	TENDON 19	TENDON 20
MAJOR AXIS STRENGTH / kN	22	30	27	27	27	23	23	23	21
MINOR AXIS STRENGTH / kN	8	10	10	10	10	10	10	9	8
OPEN GATE STRENGTH / kN	6	10	9	9	9	9	9	10	7
WEIGHT / g	90	70	56	55	60	55	55	39	31
EN	12275, 362 B	12275, 362 B	12275	12275	12275, 362 B	12275	12275	12275	12275

HELMETS ORBIX

EN 12492 / CE 0497



- low weight: 240 g
- ergonomic and padded interiorventilation with 17 vents
- 3 Headlamp clips
- size: UNI 54/62 cm, new easily and conveniently adjustable system
- fully adjustable chinstrap
- material: external shell polycarbonate, internal shell from EPS









XT-ORBIXWHITE



QUICKDRAW AND SEWN SLINGS

EN 566 / CE 1019

			F	A		
LENGTH / cm	10	15	20	60	120	180
WIDTH / mm	16	16	16	16	16	16
MIN.STRENGTH / kN	22	22	22	22	22	22
			DYNE	EMA®		
LENGTH / cm	10	15	DYNE 20	EMA ® 60	120	180
LENGTH / cm	10	15 11			120 11	180 11



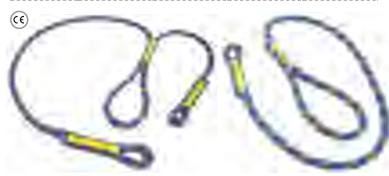




DYNAPROT 10

CE 1019

	FALL FA		FALL FA	 NCTOR 2
STATIC TENACITY / kN	IMPACT FORCE / kN	NUMBER OF FALLS	IMPACT FORCE / kN	NUMBER OF FALLS
22	7.4	min. 20	10.7	9



DynaProt 10, the dynamic sling, is made of a dynamic rope and is therefore capable of absorbing the energy of a dynamic fall and to dampen this fall thanks to its elongation. DynaProt 10 has been tested with fall factors 1 and 2. It is able to arrest nine falls with a fall factor of 2. Even with a fall factor of 2, the impact force is lower than the maximum force permitted by EN 892.

DYNAPROT 10 CLASSIC:

length 45 cm - **DP100C045** length 60 cm - **DP100C060** length 75 cm - **DP100C075**

DYNAPROT 10 Y:

length 75 cm - **DP100Y000**

DYNAPROT 10 Y SHORT:

length 45 cm and length 75 cm – **DP100YS000**

MASTERCORD 7.8

EN 566 / CE 1019

LENGTH / cm	60	120	180
MIN.STRENGTH / kN	22	22	22

MasterCord 7.8 is a dynamic sling that is certified to EN566 standard with a minimum strength of 22 kN. Additionally, the MasterCord 7.8 dynamic sling has been tested on a drop tower with an 80kg weight and a fall factor of 2. Made from a dynamic rope, this helps absorb the impact energy of a fall, potentially reducing the force on the users and the anchor points. The MasterCord 7.8 can be used as part of a quick anchor when securing your belay, or it can be used on the route in place of a conventional sling.

MASTERCORD 7.8:

length 60 cm - MC078C060 length 120 cm - MC078C120 length 180 cm - MC078C180





ULTIMO

EN 12277 / CE 1019

	 WAIST	 / cm	LEG LOOPS / cm				
SIZE	min.	max.	min.	max.			
XS	65	75	49	49			
S	70	80	52	52			
M	75	85	55	55			
L	80	90	58	58			
XL	85	95	60	60			
WEIGHT/g		3	52				

XT-ULTIMO-XS XT-ULTIMO-L XT-ULTIMO-S XT-ULTIMO-XL XT-ULTIMO-M

The Ultimo is an extremely lightweight and ideally sized harness with comfortable leg loops, suitable mainly but not exclusively for sport climbing. Made with low weight and comfort in mind, ensuring that the Ultimo will be appreciated in climbing contests and extreme route climbing.



€

STORM

EN 12277 / CE 1019

	WAIST	Г / cm	LEG LOOPS / cm				
SIZE	min.	max.	min.	max.			
ZX	65	75	50	55			
S	70	80	50	55			
М	75	85	55	60			
L	80	90	55	60			
XL	85	95	65	70			
XXL	90	100	65	70			
WEIGHT / g		42	.9				

XT-STORM-XS XT-STORM-L XT-STORM-S XT-STORM-XL XT-STORM-M XT-STORM-XXL

The Storm is a comfortable harness with reinforced attachment points and a differently coloured belaying eye. The leg loop diameter of the Storm can be adjusted to ensure comfort. The Storm has been designed especially for sport climbing.



TALUNG



EN 12277 / CE 1019

	WAIS	ſ / cm	LEG LOOPS / cm			
SIZE	min.	max.	min.	max.		
S	65	80	50	55		
M - L	75	90	60	65		
XL	85	100	65	70		
WEIGHT / g		46	55			

XT-TALUNG-S XT-TALUNG-M/L XT-TALUNG-XL



This multi-purpose harness is intended especially for mountain,big wall climbing and a full day at the crag. It features excellent adjustability via four stainless steel buckles. This should ensure the Talung gives maximum comfort during long and strenuous ascents.

COMP



EN 12277 / CE 1019

	WAIST	 / cm	LEG LOO	 PS / cm
SIZE	min.	max.	min.	max.
ONE SIZE	65	120	42	66
WEIGHT / g		50)5	

XT-COMP



Harness for via ferratas and for beginners. With reinforced leg loops and attachment points, with two loops for material attachment. It optimizes the position of the body when hanging on the rope or after a fall. It prevents the body from taking the upside down position.



CANYON SIT

EN 12277 / CE 1019

	WAIST		LEG LOO	PS / cm	
SIZE	min.	max.	min.	max.	
ONE SIZE	60	120	42	66	
WEIGHT / g		5	50		

XT-CANVON

A simple, uncushioned harness for canyoning, based on the design of the popular sport harness Jammy. It is made of a strong material which is resistant to the water environment. With its removable neoprene protector, ergonomic design and reinforce attachment points, this harness is an ideal part of your gear for canyons.



JAMMY

EN 12277 / CE 1019

			_	 	-						 	 			-			
								WAIST	/ cm	1		I	LEG	LOOPS	6 /	cm		
			-	 	-						 	 			-			
SIZE						r	nin.			max.		min	l.			ma	ìΧ.	
			-	 	-						 	 			_			
ONE	SIZE						60			120		42				6	6	
			-	 	-						 	 			-			
WEI	GHT /	/ σ									370							



Very lightweight uncushioned harness designed especially for via ferratas, mountains and glaciers. Available in one universal size for all figures, with reinforced attachment point, colour-differentiated belay loop for safe fastening and one loop for material attachment. The right choice also for artificial climbing walls, climbing schools and skialpinism.

SCOUT

(€)

EN 12277 / CE 1019





DO NOT USE THE CHEST HARNESS SEPARATELY!

(€)

XT-SCOUT



Chest harness SCOUT must be used in combination with a sit harness. It has two buckles for adjustment purposes and the height of attachment may be selected according to its position.







TENDON HOODIE

Pleasant and comfortable full-length zipper sweatshirt with fluorescent parts and contrasting large hood with microperforated fabrica nd two pockets

Style: UNISEX Size: S, M, L, XL, XXL Color: black and lime Material: 85% COTTON 15% VISCOSE

cm	S	М	L	XL	XXL
width	50	53	56	59	62
lenght	63	66	69	72	75

XTENDON MIKINA (S-XXL)



TENDON T-SHIRT

Cotton t-shirt with short sleeves.

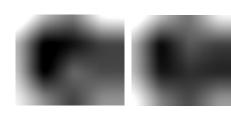
Modern with round and lined neckline.

Men's and women's comfortable fit.

Weight: 185 g/m² Size: S, M, L, XL, XXL

Material: 100% ORGANIC COTTON

XT-CLIMB/Z/M/S-XXL XT-CLIMB/Č/M/S-XXL XT-CLIMB/Z/W/S-XL XT-CLIMB/Č/W/S-XL



TENDON SNAPBACK

Straight peak Size: universal Color: various

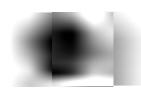
XTENDON CUP BLACK



NALGENE BOTTLE

Excellent bottle made by Nalgene with flip cap and safety lock against opening and spilling of the drink. The shaped neck makes it easy to fill the bottle up. Easy opening and closing with one hand. Volume: 750 ml.

XNALGENE BOTTLE



TENDON CAP

Breathable elastic material of soft nonscratching construction with high thermal insulation even in extreme climatic conditions. Ideal under the helmet when climbing.

XCAP



MICROFLEECE CAP

Material: 100% polyester mikrofleece Size: onesize

XTENDON_HAT



TENDON SCARF

Practical multifunctional scarf. You can turn it into a headdress, balaclava, pirate, neckerchief, hair band. Suitable for all sports and leisure. Made of one piece without seams and antibacterial microfiber. Offers protection against wind, snow, sun, etc.

Material: 100% POLYAMIDE Size: universal

XHEADSCARF GREEN XHEADSCARF BLACK



CRUSHED MAG

Climbing chalk (magnesium carbonate) ina practical plastic screw dose. perfect grade natural chalk specifically designed for climbing activites.

Capacity: 100 g (3.5 oz) of chalk

XTENDON MAGNESIUM

TENDON STICKERS

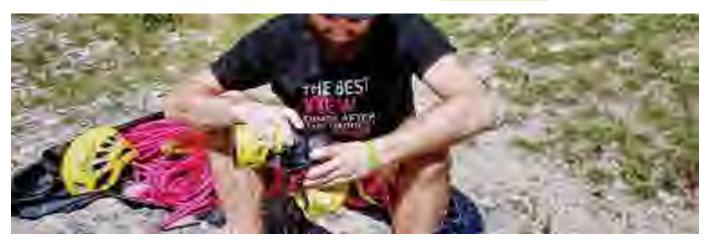




tied to be free



XSTICKER







Ideal format for take notes about your climbing projects



CLOTH BADGE

Application of a cloth badge is a suitable way of decoration and additional decoration of finished clothing.

Size: 85 x 45 mm



TENDON PEN

Ballpoint pen for writing XTENDON PEN



TAPING STRIPS

Dimensions: 1.25 cm x 10 m 5 cm x 10 m

XTAPING STRIP
XTAPING STRIP NEW



TENDON CUP

Stainless steel mug with colored snap hook instead of handle. Color: green Volume: 300 ml

XTENDON_HRNEK



CHALK BAG

The magnesium bag is made of printed polyester and polyamide. Fleece is used as the inner material. A quick closing system and a reinforced edge allow comfortable handling of the bag.

XTENDON CHALK BAG







RECYCLED TENDON MERCH

TENDON merch are made of dynamic and static ropes residue.



SELECTING A SUITABLE CLIMBING ROPE

	LE OLIMBI													
* * Ideal use • Possible use	Type of sheath	Technology	Certificated as	Beginner	Advanced	Expert	Ice/mix climbing	Alpine climbing	Big wall	Sport climbing	Projecting	Onsight	Indoor	Toprope
Alpine 7,9	Tandem		1/2; 2	•	•	* *	•	* *						
Ambition 10	SBS		1,2,2	* *	•					* *	* *		* *	•
Ambition 10,5	Tandem		1	* *						•	* *		* *	•
Ambition 8,5	Tandem		1/2	* *	•		•	* *						
Ambition 9,8	Tandem		1/2	* *	•					* *	* *		* *	•
AmbitionTeFIX 10,2	Tandem	Tefix	1	* *					•	* *	•		* *	•
Hattrick 10,2	SBS	Secure	1	* *	•				* *	•	* *		•	* *
Hattrick 9,7	SBS	Secure	1	•	* *	•			•	* *	* *		* *	* *
Indoor 10,2	Tandem		1	* *									•	* *
Indoor 10,4	Tandem		1	* *									•	* *
Lowe 8,4	Tandem	Lowe	1/2; 2	•	* *		•	* *						
Master 7	Tandem		2			* *	•	* *						
MasterPro 7,6	SBS pro		1/2; 2		* *	* *	* *	* *			* *			
Master 7,8	Tandem		1/2; 2		* *	•	* *	* *			•			
Master 8,5	Tandem		1/2; 2	* *	•		* *	* *			* *			
Master 8,6	Tandem		1; 1/2; 2			* *		* *		* *		* *		
Master 9,4	SBS		1		•	* *	•			* *	•	•	* *	
Master 9,7	SBS		1	•	* *	•				* *	•		* *	•
MasterPro 8,9	SBS pro		1; 1/2; 2		•	* *	* *	* *		* *		* *		
MasterPro 9,2	SBS pro		1		•	* *	•			* *	* *	•	* *	
MasterPro 9,7	SBS pro		1		•	* *	•		* *	* *	* *		* *	•
MasterTeFIX 9	Tandem	Tefix	1; 1/2; 2		•	* *	* *	* *		.tt.		* *	* *	
MasterTeFIX 9,7	SBS	Tefix	1			* *	•		•	* *	•		* *	
Trust 11	Tandem		1	* *									•	•
Trust 11,4	Tandem		1	* *									•	•



MIDPOINT OF ROPE

The rope is distinctly marked in the midpoint of its length with an ink which does not affect its structure and its mechanical properties. In case of new ropes, the flexibility in the area of marking may be slightly stiff but this phenomenon disappears during the first use of the rope.

THE MIDPOINT MARK:

- clearly identifies the rope midpoint during abseiling and guarantees that both rope ends have the same length,
- · assists in quickly finding the rope midpoint and the climber knows when abseiling,
- · that both rope ends hanging down have the same length without measuring,
- in sport climbing, informs the belayer that the climber is higher that a half of the rope and his/ her descending or abseiling may be difficult,
- in the mountains, informs the belayer that a half of the rope (still or just) remains,
- · assists in coiling the rope "from the midpoint".



YOU SHOULD ALWAYS KNOW WHERE THE MIDPOINT OF YOUR ROPE IS, ESPECIALLY IF THE ROPE HAS BEEN SHORTENED.



We develope conception of the overall administration and registration of ropes which, thanks to NFC technology, offers amazing possibilities and brings user comfort to a new level. With a PC and a mobile phone youobtain a quick, effective and smart tool for examination and maintenance of your ropes.

OUR ROPES WILL COMMUNICATE WITH YOU

INNOVATIVE AND MOBILE ACCESS TO IDENTIFICATION, MARKING AND REGISTRATION OF STATIC AND DYNAMIC ROPES.

MORE INFORMATION ON WWW.MYTENDON.COM







END MARKING OF ROPES

End marking of ropes by TENDON Thermotransfer is relatively permanent, does not come off and doesn't cause formation of rope end widenings that could get caught when pulling down the rope after abseiting.



ROPE IDENTIFICATION AND MARKING

STATIC ROPE

There is an identification tape (two tapes in case of NFPA certified ropes) inside the rope which contains the following information: rope manufacturer, standard, rope type, material used, year of manufacture.

DYNAMIC ROPE

Inside a dynamic rope there is a colour marker thread (one or more) identifying the calendar year of manufacture of the rope.

MORE INFORMATION ON WWW.MYTENDON.COM OR IN USING INSTRUCTION.



SEWN AND SPLICED EYE

Certain types of ropes can be delivered with a sewn or spliced eye on request. Sewn and spliced eyes are always in conformity with relevant standards.



ROPE TERMINATION

A perfect rope termination is done by the COMPACT technology the core of the last 15 mm of the rope is joined to the sheath by means of ultrasound to form a compact end. This technology is currently considered to be the best method of rope termination.

ROPE CUTTER + CUTTING BLADE

CUTTING BLADE TYPE R • XCEPEL-R HEAT CUTTER HSG • XPAJKA-HSGO

Rope shortening device.

ROPE PROTECTOR

LENGTH 60 CM • XPROTECTOR60 Length 100 Cm • XPROTECTOR100

Rope protector against rubbing when the rope runs over an edge. A resistant sleeve made of PVC with easy closing by a velcro fastener.

ROPE MADE TO MEASURE

We can make a rope in a length as required by you. Thanks to this possibility there is no need for you to shorten and mark the rope later. Just think economically and effectively – you can save time and money and avoid making useless waste.

TENDON ROPE CLEANER

XPRACIGEL03



Do not use any detergent for cleaning and washing of ropes. Tendon Rope Cleaner is a highly effective detergent for safe and thorough washing of ropes in washing machines as well as by hand. It does not damage the rope in any way and in addition the rope is ageing more slowly and is easier to use after washing and proper drying.



IF YOU BUY A NEW STATIC ROPE AND A SITUATION OCCURS THAT YOU HAVE TO USE IT IN A WET ENVIRONMENT, WE RECOMMEND YOU TO WASH THE NEW ROPE BEFORE THE FIRST USE. THIS WAY YOU WILL REMOVE GREASY ADDITIVES (USED DURING PRODUCTION OF PA FIBRE) THAT WOULD GET RELEASED FROM THE ROPE ON THE FIRST CONTACT WITH MOISTURE.

STORAGE LIFE AND LIFESPAN OF DYNAMIC ROPES

STORAGE LIFE

THE MAXIMUM STORAGE LIFE IN UNUSED CONDITION WITHOUT LIMITATION TO LIFE SPAN MAKES UP TO 5 YEARS.

This is conditional on optimum storage conditions: clean place protected against light, without chemical, physical and mechanical effects, in a normal climate of 15 - 25 °C and a relative humidily of about 65 %. An examination of the rope by a competent person (person authorized by the manufacturer) once every six months is mandatory.

In the process of rope production, the fibres are mechanically doubled, twisted and braided in several stages. In this way the fibres finally attain a condition of mechanically induced stress. A long-term storage leads to retardation and relaxation. This means that stress in macromolecules is "relieving". This phenomenon is not harmful, on the contrary it is connected with an improvement of dynamic properties. Research works showed that the results of tests of dynamic performance of ropes that had been (optimally) stored for several years were often better than values measured immediately after production. Polyamide also does not contain additives and softeners like, for example, PVC that could diffuse out. This is the reason why no embrittlement occurs.

In addition, the in-the-meantime standardized finishing of fibres by nanotechnological treatment offers an additional protection.

In case of present-time advanced materials, a considerable negative change of properties of the product in a time interval of 5 years can be excluded provided that optimum storage conditions are maintained.

Safety investigations performed by mountaineering associations in the past showed that some used and duly stored ropes made early in the sixties (!) still had a residual capacity of two standard falls!

LIFESPAN

AGEING OF DYNAMIC ROPES IN USE

Due to different influences on use and specialities of use it is impossible to give an exact numerical value, only a roughly estimated time value can be specified.

Depending on frequency and intensity of use, external effects as abrasion, contamination, mechanical loading (static), rope work (lowering and/or abseiling), loading by falls (dynamic), intensive action of UV radiation, aggressive climatic conditions etc. lead to reduction of safety reserve of the dynamic rope.

- The consequences of abseiling and lowering are reduction of dynamic performance and reduction of safety reserve of the rope.
- Abrasion leads to gradual weakening of consistency of the sheath. Heavier abrasion makes the sheath "hairier" and reduces the loadability of the sheath and its protective effect on the rope core.
- Particles of impurities and rocks inside the rope, especially in combination with heavy performance of the rope, result in abrasion of fine fibres of the core and the sheath. The particles act as abrasive sand and lead to reduction of the load-bearing cross section of the fibres, especially during frequent abseiling/lowering.
- Dynamic load results in loss of rope performance the ability of arresting dynamic (impact) energy decreases. This depends on the hardness of the fall considerably (hardness of the fall is given by the belay method and the fall factor; falls with a fall factor of > 1 are classified as hard falls according to the general state of the art).

Safety investigations performed by mountaineering associations reveal that if the rope sheath is not excessively damaged and shows no signs of heavy abrasion, a loading by falls with a fall factor of ≤ 0.5 and correct dynamic belaying does not represent a safety risk provided that the rope is not resting on sharp edges.

INVESTIGATIONS BY THE SAFETY COMMISSION OF THE GERMAN ALPINE CLUB

Investigations performed by the Safety Commission of the German Alpine Club in the nineties revealed that there was a hyperbolic relation between the loss in safety reserve and the rope performance. There is also a linear relation between the rope quality and the loss in safety reserve.

The higher the safety reserve (number of falls) of the rope, the longer the life span of the rope, because the loss starts from the higher initial level.

In practical use of mountaineering ropes, two factors of rope work with different effects on the rope may be defined essentially:

- The rope is drawn by dead weight and friction only (metres of climbing). The leader climbs up and draws the rope behind to the next belay station, the rope is drawn from above or by change of rope direction without being loaded by the weight of the climber. The influencing factors are only the surface of the ground and friction when drawing the rope, as well as ambient conditions (UV radiation, moisture, impurities etc.).
- The rope is used for lowering and abseiling (metres of abseiling).

The general load is very low.

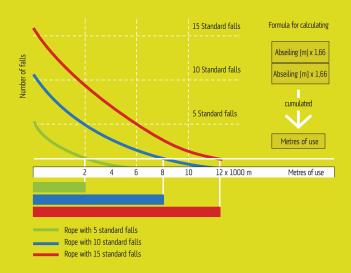
When using the rope for lowering with bending, a high performance induced by friction and movement is generated both in the belay/braking system (HMS, descender or belay device) and in the place of bending in the sheath and the core and is often connected with twisting which is brought about by the frequently-occuring false twist effect.

The general load is much higher than in the aforementioned case!

The user may use the following simple equation for making an approximate calculation:

metres of climbing x 0.33 + metres of abseiling x 1.66 = metres of use

When documenting the metres of use cumulatively, the user may estimate the safety condition of the rope (safety reserve of the number of falls) from the number of metres of use of the rope since the first day of use.



GENERAL VALUES OF SAFETY CONDITION (SAFETY RESERVE)

According to curves depicted in the graph for individual rope types:

TENDON 11.0 mm Trust 16 standard falls on the day of production	TENDON 11.4 mm Trust	20 standard falls on the day of production
	TENDON 11.0 mm Trust	16 standard falls on the day of production

The number of cumulated metres may be used to estimate the remaining safety condition/safety reserve (number of standard falls) of the rope.

Estimated safety condition of ropes used with different intensity (TENDON 11 mm Trust):

 Safety condition >/= 5 standard falls (up to approx. 6,000-8,000 metres of use)

If the rope is in perfect condition, it may be used to secure any climbing situation up to a fall factor of 2.

Safety condition > 2 standard falls (up to approx. 12,000-14,000 metres of use)

If the rope is in perfect condition, it may be used to secure any climbing situation up to a fall factor of 1.

■ Safety condition </= 2 standard falls

If the rope is in perfect condition, it may be used to secure any climbing situation up to a fall factor of 0.3, if the rope sheath shows no signs of damage or extreme hairiness.

It is not easy to specify an exactly defined life span.

The following information can be used as a guide:

occasional use (e.g., five times a year, training use) with no heavy
performance of the rope (no abseiting), without loading by hard falls,
with the rope being correctly used and loaded by not more than
600-800 metres of use = the rope may be used safely for 10 years
maximum.

Extreme loading by falls or other strong mechanical, physical, climatic or chemical effects can damage the rope so heavily that it must be discarded immediately.

The rope must be discarded immediately also in case the user has the slightest doubt about the safety and the perfect condition of the rope.

STORAGE LIFE AND LIFE SPAN OF STATIC ROPES

STORAGE LIFE

THE MAXIMUM STORAGE LIFE IN UNUSED CONDITION WITHOUT LIMITATION TO LIFE SPAN MAKES UP TO 5 YEARS.

This is conditional on optimum storage conditions: clean place protected against light, without chemical, physical and mechanical effects, in a normal climate of 15 - 25 °C and a relative humidily of about 65 %. An examination of the rope by a competent person once every six months is mandatory.

In the process of rope production, the fibres are mechanically doubled, twisted and braided in several stages. In this way the fibres finally attain a condition of mechanically induced stress. A long-term storage leads to retardation and relaxation. This means that stress in macromolecules is "relieving". This phenomenon is not harmful, on the contrary it is connected with an improvement of dynamic properties. Research works showed that the results of tests of dynamic performance of ropes that had been (optimally) stored for several years were often better than values measured immediately after production. Polyamide also does not contain additives and softeners like, for example, PVC that could diffuse out. This is the reason why no embrittlement occurs.

In case of present-time advanced materials, a considerable negative change of properties of the product in a time interval of 5 years can be excluded provided that optimum storage conditions are maintained.

LIFE SPAN

As to ageing of static ropes, it is impossible to give an exact numerical value, only a roughly estimated time value can be specified. This information does not relieve the user of the mandatory examination of the rope by a competent person (person authorized by the manufacturer) after use.

Depending on frequency and intensity of use, external effects as abrasion, contamination, mechanical loading (static), rope work (lowering and/or abseiting) loading by falls (dynamic), intensive action of UV radiation, aggressive climatic conditions etc. lead to reduction of static and dynamic performance (safety reserve) of the static rope.

The crucial influencing factors for safety of static ropes are external effects, as for instance:

- Sharp edges that may have fatal consequences even at a slight tension of the rope!
- Abseiling and lowering (rope work) lead to loss of dynamic and static performance. For instance, frequent abseiling with high load forms clusters of fused (melted) fibres in the rope sheath as a result of the heat inevitably developed by friction.
- Abrasion leads to gradual weakening of consistency of the sheath. Heavier abrasion makes the sheath "hairier".
- Internal wear particles of impurities and rocks inside the rope, especially in combination with heavy performance of the rope, result in abrasion of fine fibres of the core and the sheath. The particles act as abrasive sand and lead to reduction of the load-bearing cross section of the fibres, especially during frequent abseiting.
- Loading by falls
 Due to the low dynamic elongation, loading by falls
 with a fall factor of 0.3 or greater must be essentially

Because, unlike dynamic ropes, the main task of static ropes does not consist in safe catch of falls but in a quasi-static loading with a minimum dynamic stress only, a macromolecular stretching occurs when the rope is used correctly which, however, has no adverse effects on the maximum tensile force and the elongation of the rope. In case of an alternating to repeated (cyclic) loading of up to 20 % of the maximum tensile strength of the rope with approximately 10,000 loading cycles, a residual force at break of the rope of > 75 % may be expected.

EXAMPLE:

TENDON 11 mm Static

- maximum tensile force: 40.0 kN
- residual force at break knot: 16.5 kN
- residual force at break after 10,000 cycles of repeated (cyclic) loading of up to 20 % (= 6 kN): 30.0 kN

The above parameters exceed the minimum requirements of EN 1891 for Type A static rope significantly.

OCCASIONAL USE (SEVERAL TIMES A YEAR) WITH AN INTENSITY OF USE UNWORTHY OF NOTICE, WITHOUT CONSIDERABLE M CHANICAL LOADING OR FALL ARREST, WITHOUT RECOGNIZABLE WEAR OR CONTAMINATION.	8 - 10 Years
OCCASIONAL USE (SEVERAL TIMES A YEAR) WITH HIGH INTENSITY OF USE, MECHANICAL LOADING (SUSPENSION, OCCASIONAL LOWERING OR ABSELING), WITHOUT FALL ARREST. SIGNS OF USE: SLIGHT WEAR, SLIGHT CONTAMINATION, NEGLIGIBLE HAIRINESS.	5 - 8
FREQUENT USE (SEVERAL TIMES A MONTH) WITH LOW INTENSITY OF USE, WITHOUT CONSIDERABLE MECHANICAL LOADING (SUSPENSION, OCCASIONAL LOWERING OR ABSEILING) OR FALL ARREST. SIGNS OF USE: NO SIGNS OF HEAVY WEAR, SLIGHT CONTAMINATION, HARDLY BECOGNIZABLE HAIRINESS.	YEARS
VERY FREQUENT USE (SEVERAL TIMES A WEEK) WITH LOW INTENSITY OF USE, WITHOUT CONSIDERABLE MECHANICAL LOADING OR FALL ARREST. SIGNS OF USE: SIGNS OF HEAVY WEAR, SLIGHT CONTAMINATION, RECOGNIZABLE HAIRINESS.	3-5
VERY FREQUENT USE (SEVERAL TIMES A WEEK) WITH HIGH INTENSITY OF USE, MECHANICAL LOADING (SUSPENSION), BUT WITHOUT FALL ARREST. SIGNS OF USE: SIGNS OF WEAR, OBVIOUS HAIRINESS, SLIGHT VITRIFICATION.	YEARS
INTENSIVE USE (EVERY DAY) WITH NORMAL INTENSITY OF USE, WITHOUT CONSIDERABLE MECHANICAL LOADING OR FALL ARREST. SIGNS OF USE: OBVIOUS WEAR, OBVIOUS HAIRINESS, HEAVY CONTAMINATION.	1 - 3 YEARS
INTENSIVE USE (EVERY DAY) WITH HIGH INTENSITY OF USE, MECHANICAL LOADING (SUSPENSION), BUT WITHOUT FALL ARREST. SIGNS OF USE-HEAVY WEAR, VITRIFICATION, CONTAMINATION AND HAIRINESS.	=1<br YEAR
EXTREME LOADING BY FALLS OR OTHER STRONG MECHA	ANICAL

EXTREME LUCUING BY FALLS OR OTHER STRONG MECHANICAL, PHYSICAL, CLIMATIC OR CHEMICAL EFFECTS COME DAMAGE THE ROPE SO HEAVILY THAT IT MUST BE DISCARDED IMMEDIATELY. THE ROPE MUST BE DISCARDED IMMEDIATELY ALSO IN CASE THE USER HAS THE SUGHTEST OOUBT ABOUT THE SAFETY AND THE PERFECT CONDITION OF THE ROPE.

TESTING OF CLIMBING ROPES IN ACCORDANCE WITH EN 892

DIAMETER



WEIGHT



STATIC ELONGATION



SHEATH SLIPPAGE



DIAMETE

This parameter is measured with a 10 kg load for single ropes, 6 kg for half ropes and 5 kg for twin ropes. This would imply that testing the exact diameter of ropes under domestic conditions is quite difficult.

WEIGHT

The mass of a rope is measured for a length of one meter. A single rope without any added finish weights 52 to 88 grams per meter, a half rope about 50 grams and twin rope approximately 42 grams per meter. The rope's core must account for at least 50 % of its total mass.

STATIC ELONGATION

Usable static elongation is tested by applying an 80 kg load to the rope. Elongation may not exceed 10 % for single ropes (one strand) and twin ropes (two strands tested in tandem) and 12 % for half ropes (one strand).

SHEATH SLIPPAGE

Using a special machine, this test determines how much the surface of a rope will slip relative to the core when subjected to a load. The EN 892 establishes that slippage may not exceed 1 % (20 mm) when stretching a length of rope measuring 2250 (+ - 10 mm). If the sheath slides over the core during actual climbing, it can lead to bulges and so-called stockings. If the ends of ropes have not been sealed properly, the core at the end of the rope can come loose from the sheath or the sheath may extend longer than the core.

The ends of our ropes are sealed with ultrasound into one indivisible whole and if the limits for slippage are complied with, the situation described above will not occur.

NUMBER OF STANDARD FALLS

This gives the number of falls the rope being tested under conditions given by the EN 892. This standard requires a minimum of 5 falls with a load of 80 kilograms for single ropes. Half ropes are tested with a 55 kg load. For twin ropes, the two ropes are under a constant load of 80 kilograms and the minimum number of falls is 12. The number of falls withstood during testing is a direct measurement of a rope's margin of safety (strength). In practice, no new rope will break under a sudden load if the rope is in good condition and has been properly handled. A rope will gradually become less

safe as its material ages and as it becomes worn from use, as these factors reduce its strength. Moisture can also reduce a rope's strength by degrading the polyamide fibers used for making the rope.

MAXIMUM IMPACT FORCE

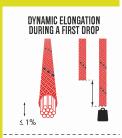
Impact force is the force that occurs during a first fall under defined conditions (mass of the load, fall factor, etc.) and that is absorbed by the rope. Under testing, the impact force increases for each additional test fall the rope is subjected to. How fast the impact force increases determines the number of standard falls withstood. The higher the number of standard falls, the longer the service life of the rope for the user. The practical use of ropes in real climbing or on training walls is different from laboratory conditions. During standard rope tests, the end of the rope is firmly secured, but in real climbing, belaying equipment and systems allow for some slippage of the rope, breaking the fall dynamically. Dynamic belaying dissipates some of the fall's energy, thereby lowering the impact force. For that reason, it is important to know how to use appropriate dynamic belaying.

DYNAMIC ELONGATION DURING A FIRST DROP

This parameter measures the elongation of the rope during the first standard drop. The maximum allowable dynamic elongation is 40 %. This measurement is a better indicator of the rope's properties than the static elongation value.

KNOTABILITY

One of the most important requirements for mountain climbing rope is outstanding flexibility. How is this measured? A section of the tested rope is tied into a simple knot. Weight is then applied to the rope (10 kg for a single rope). Then the interior diameter of the knot is measured. The ratio between that diameter and the diameter of the rope gives the coefficient of knotability.



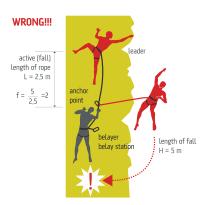
KNOTABILITY



THE FALL FACTOR IS ALSO OF KEY IMPORTANCE FOR THE AMOUNT OF IMPACT FORCE. HOW FAR YOU FALL IS VIRTUALLY

INSIGNIFICANT FOR THE IMPACT FORCE. THE AMOUNT OF THE FALL FACTOR IS MUCH MORE IMPORTANT. A FIVE METER FALL WITH A FALL FACTOR OF F=1 WILL RESULT IN A MUCH LOWER IMPACT FORCE THAN A FALL OF THE SAME LENGTH WITH A FACTOR OF F=2. THE ENERGY OF THE CLIMBER'S FALL IS ABSORBED BY THE ACTIVE LENGTH OF THE ROPE (SHOWN IN THE ILLUSTRATIONS IN RED).







A ROPE WITH POOR FLEXIBILITY IS HARDER TO TIE IN KNOTS AND SLIDES LESS EFFICIENTLY THROUGH THE CARABINERS OF A BELAYING SYSTEM. THE EFFECTS OF THE ELEMENTS OR OF IMPROPER CARE CAN REDUCE A ROPE'S FLEXIBILITY.

LANEX has built its own laboratory for testing its TENDON ropes, including its own drop tower. Newly developed ropes to European labs for certification already fully prepared and with known technical parameters. Most TENDON ropes are tested at the accredited TÜV lab in Vienna.

REQUIREMENTS OF THE NORM EN 892 - DYNAMIC CLIMBING ROPES

		REQUIRED VALUES	
MONITORED PARAMETER	SINGLE ROPE	HALF ROPE	TWIN ROPE
Rope diameter	Undefined	Undefined	Undefined
Rope weight	Undefined	Undefined	Undefined
Sheath slippage	1 % (± 20 mm)	1 % (<u>+</u> 20 mm)	1 % (± 20 mm)
Static elongation	max. 10 % *	max. 12 % *	max. 10 % **
Dynamic elongation	max. 40 % +	max. 40 % ***	max. 40 % ++
Impact force of the first fall	max. 12 kN +	max. 8 kN ***	max. 12 kN ++
Number of falls	min. 5 +	min. 5 ***	min. 12 ++

^{*} test of one strand of rope / ** test of two strands of rope / *** test of one strand of rope, load: 55 kg

TESTING OF ACCESSORY CORD

DIAMETER

Accessory cords are tested in a manner similar to testing of ropes, except that the pretensioning is less. According to EN 564, cords should have diameters of 4, 5, 6, 7 and 8 mm. Smaller diameters (2 mm – avalanche cords, 3 mm – hammer cord and 9 mm – force cord) do not comply with the norm.

STRENGTE

The minimum strength under to EN 564 is shown on the table below:

diameter (mm)	minimum strength kN
4	3.2
5	5.0
6	7.2
7	9.8
8	12.8

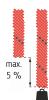
⁺ test of one strand of rope, load: 80 kg / ++ test of two strands of rope, load: 80 kg

TESTING ROPES WITH LOW ELONGATION (STATIC ROPES) IN ACCORDANCE WITH EN 1891

DIAMETER



ELONGATION



DIAMETER

This quantity is measured with a 10 kg load on the rope. The ropes may have a minimum diameter of 8.5 mm and a maximum of 16 mm.

FLONGATION

Usable static elongation is measured by applying a test load of 150 kg (after 50 kg pretensioning). Elongation may not exceed 5 %.

STATIC STRENGTH

This is always stated on tags on the ropes. It varies according to the diameter of the rope and the kind of Used material. EN 1891 requires that group A ropes have a minimum static strength of 22 kN and that Type B ropes have a minimum static strength of 18 kN.



THE MAXIMUM RECOMMENDED LOAD IS 1/10 OF THE NOMINAL STRENGTH STATED ON THE PRODUCT LABEL.

REQUIREMENTS WITH RESPECT TO MATERIAL PROPERTIES

According to EN 1981, static ropes must be manufactured from a material that has a melting point higher than 195 °C, so they may not be made using polyethylene and polypropylene. Ropes made for those materials for canyoning are not subject to that norm, although they fulfill the norm with respect to static strength and other parameters.

SHEATH SLIPPAGE

This parameter is important mainly during rappelling on static ropes – if this parameter of a rope is insufficient, a safe descent could be endangered by the bunching of the rope's sheath in front of the rappelling brake.

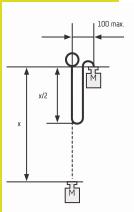
For Type A ropes, slippage may not exceed ca. 20 mm for a 2 m length of rope (this applies to ropes with a diameter of up to 12 mm). For Type B ropes, slippage may not exceed 15 mm.

KNOTABILITY

This is tested in the same way as mountain climbing ropes: it must not be possible to insert a bar with a diameter greater than a multiple of 1.2 times the diameter of the rope into the opening in the knot tightened by the testing force.

DYNAMIC PERFORMANCE

The testing equipment is similar to that used for testing climbing ropes, except that the rope is ca. 2 m long. At the ends it is tied in figure eight knots and it is tested with five falls with a fall factor of 1. During the test, the rope must withstand all five falls. Type A ropes are tested with a load of 100 kg. Type B ropes are tested with a load of 80 kg.

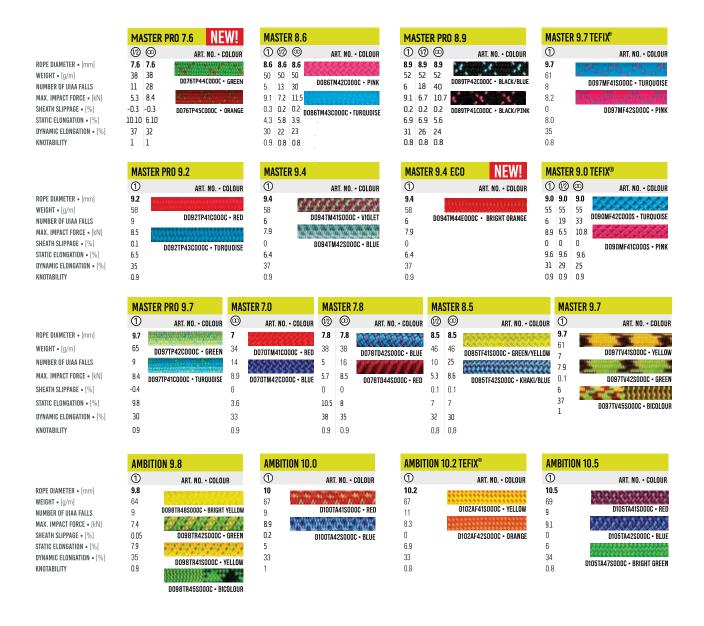


REQUIREMENTS OF THE NORM EN 1891 – STATIC ROPES

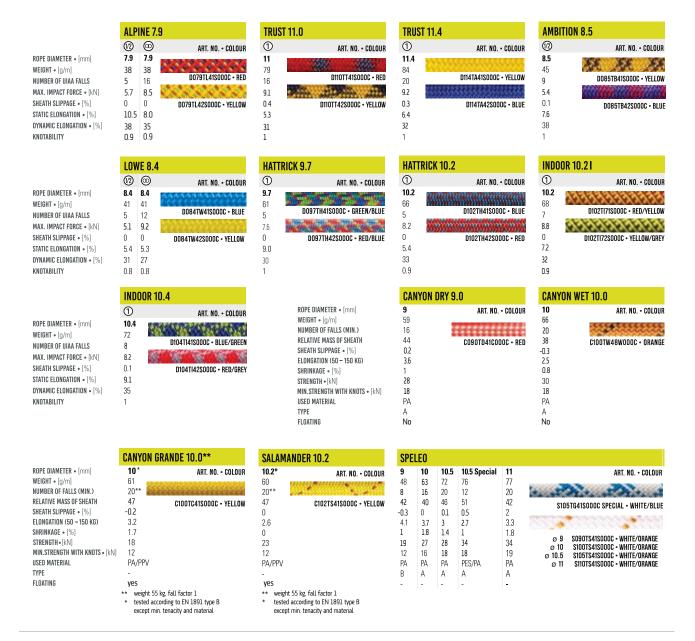
	REQUIRED VALUES			
MONITORED PARAMETER	ROPE TYPE A	ROPE TYPE B		
Rope diameter	8.5 – 16 mm	8.5 – 16 mm		
Knotability coefficient	max. 1.2	max. 1.2		
Sheath slippage	max. 20 mm*	max. 15 mm*		
Elongation	max. 5 %	max. 5 %		
Shrinkage	Undefined	Undefined		
Impact force	max. 6 kN	max. 6 kN		
No. of falls with a fall factor of 1	min. 5	min. 5		
Strength without knots	min. 22 kN	min. 18 kN		
Strength with knots	min. 15 kN (3 minutes)	min. 12 kN (3 minutes)		

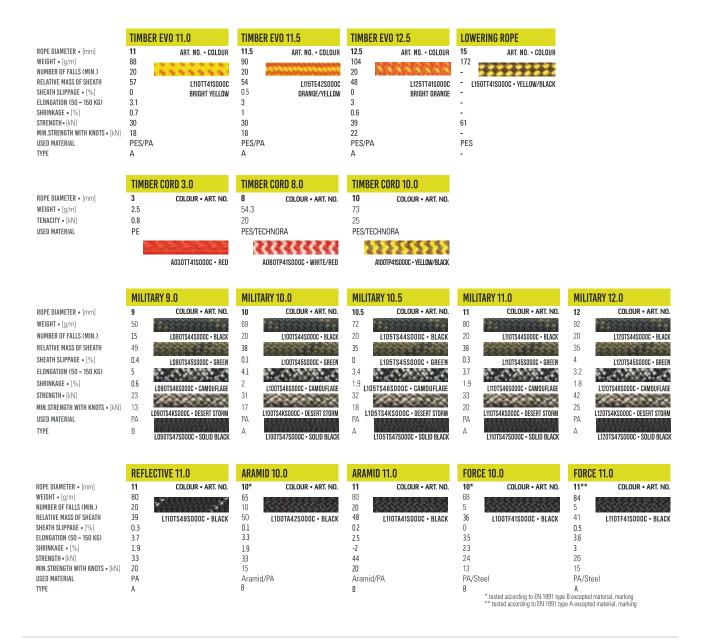
^{* 20} mm + 10 for ropes to diameter 12 mm. 20 mm + 5 for ropes with diameter between 12.1 - 16 mm

CODES AND COLOURS

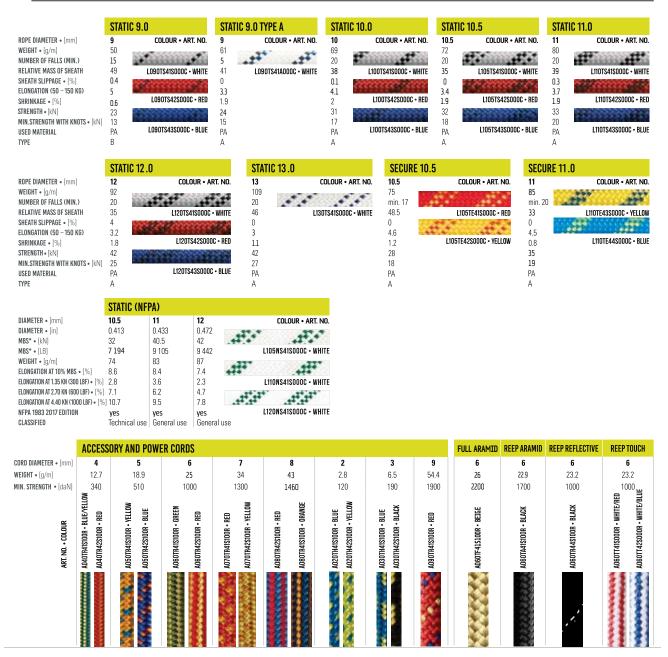


CODES AND COLOURS





CODES AND COLOURS



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