

An aerial, black and white photograph of a city skyline. In the center, a tall, dark skyscraper is under construction, with its upper sections appearing as a solid dark mass. To its left, several other high-rise buildings are in various stages of construction, with visible structural frames and some completed facades. In the foreground, two prominent cylindrical buildings with curved facades are under construction, showing their internal structural grids. A wide, multi-lane road with traffic runs vertically on the right side of the image. The background shows a dense urban landscape with numerous smaller buildings and a hazy sky.

BEAL

PRO

2014

GB

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1

BEAL, THE HOUSE OF INNOVATION



TECHNOLOGY FOR YOUR SECURITY

UNICORE PROCESS

An astonishing process, bonding rope sheath and core without affecting the rope's suppleness.

Even in the hardest conditions of use sheath slippage is suppressed.

If the sheath is cut or torn, core and sheath remain bonded together.

With a standard rope, if the sheath is cut by abrasion over an edge, a frequent occurrence in work at height and in rescues, it slides and gathers over some metres. It then becomes impossible to pass this zone, either to ascend or to descend.

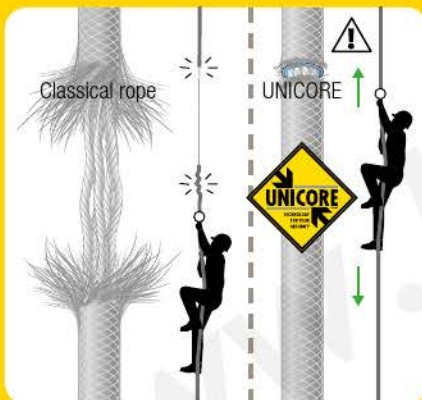
If the problem occurs near to the end of the rope the sheath may slide off completely, and the user fall to the ground.

With the **UNICORE** process the sheath remains in place and the user may escape, either by descent or ascent, taking all necessary precautions.

He/she is not stuck without a solution on the rope.



The UNICORE process brings an undeniable gain in security during delicate and dangerous operations ; its advantages are many:



It allows escape if the sheath has been cut.



It allows temporary cutting of rope lengths with a knife, without melting the ends, without fraying of the sheath.



It prevents sheath slippage.



It reduces shrinkage in water by more than 50%.

VIDEO



Comparative test of resistance
ACCESS 10,5 mm UNICORE



www.unicore-process.com/video

2

BEAL, IT'S MORE LIFETIME

THE DURABILITY OF BEAL ROPES



The durability of a rope depends above all on the way it is used, but also on numerous technical factors: The quality of yarn used ; the compactness of the rope ; its suppleness ; the braiding of the filaments of the sheath ; their twist ; their number ; the number of braids...

One other factor plays a particularly important role: the thickness of the sheath. You can check the quantity of sheath in BEAL ropes thanks to the percentage shown at the side of this pictogram.

LIFETIME OF BEAL METALLIC PPE



The lifetime of metal PPE is not limited.

Attention: This is the potential lifetime in use. A metal item of PPE may be destroyed during its very first use. It's inspection and control which determine if the product must be scrapped earlier. Between uses, appropriate storage is essential.

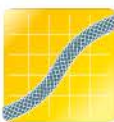
LIFETIME OF BEAL PLASTIC AND TEXTILE PPE



5 YEARS

STORAGE TIME

In good storage conditions plastic and textile BEAL PPE may be stored for up to **5 years** before first use, without affecting their future lifetime in use.



10 YEARS

LIFETIME IN USE

The potential lifetime of plastic and textile BEAL PPE in use is up to a maximum of **10 years**.



15 YEARS

LIFETIME

The maximum lifetime of plastic and textile BEAL PPE is up to **15 years**.
Lifetime = Time in storage + time in use.

LIFETIME IN USE:

The potential lifetime of plastic and textile BEAL PPE in use is up to a maximum of 10 years.

Attention: This is the potential lifetime in use. An item of PPE may be destroyed during its very first use. It's inspection and control which determine if the product must be scrapped earlier. Between uses, appropriate storage is essential.

3

BEAL, GIVING MORE SERVICES

IDENTIFICATION



IDN: Unique number of each item of PPE
All BEAL PPE is marked with a unique number which, in addition to providing the year of manufacture, ensures traceability of the product.



BCC: BEAL Color Code
Patented and durable marking system which uses coloured embroidery or a coloured line of stitching to depict the year of manufacture.



TIP: Traceability, Identification, Personalisation
Harnesses, lanyards, energy absorbers, ropes with sewn terminations are supplied with a TIP label (traceability, identification and personalisation).

TIP allows you to identify an item by writing your name and personalising the unique number of your PPE.

The TIP also has a QR code and web link to instantly access the item's logbook online, promoting its management.

It equally allows for a new generation RFID chip, called NFC, to be stuck to the label as an add-on.



NFC: Near Field Connection

NFC is a new standard in RFID chips, ultra compact and flat, compatible with most new generation Smartphones.

By bringing your phone close to the NFC chip, information relating to the item of PPE can be accessed directly and wirelessly without the need for specific software, similar to wireless payments which are already becoming commonplace. All PPE equipped with a TIP label can accommodate a NFC chip to allow kit management via smartphone.

PPE MANAGEMENT

www.equipment-manager.pro: PPE management website
SOFTWARE V3Pro: PPE management software

CUSTOMIZATION

YOUR LOGO



BEAL TRAINING ACADEMY

Each year in its international BEAL Academy school, BEAL trains many professionals in the technicalities of ropes.

On passing an assessment, trainees become members of the BEAL Experts Club.



PRO ACADEMY

IDENTIFICATION



IDN Unique number

All BEAL PPE is marked with a unique number which, in addition to providing the year of manufacture, ensures traceability of the product.



BCC BEAL Color Code

BEAL slings, pre-cut ropes and lanyards are either embroidered or have a line of stitching which - dependant on the colour used- depicts the year of manufacture of the product.



TIP Traceability, Identification, Personalisation

Harnesses, lanyards, energy absorbers, ropes with sewn terminations are supplied with a TIP label (traceability, identification and personalisation). TIP allows you to identify an item by writing your name and personalising the unique number of your PPE. The TIP also has a QR code and web link to instantly access the item's logbook online, promoting its management. It equally allows for a new generation RFID chip, called NFC, to be stuck to the label as an add-on.



The colour of the internal thread identifies the year of manufacture.

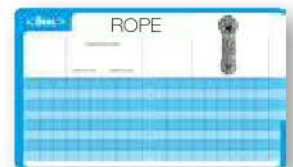


PPE MANAGEMENT WEBSITE

www.equipment-manager.pro is a PPE management website. By using responsive technology from whichever phone, tablet or computer (connected to the internet) it is able to store logbooks, your documents as well as user instructions in the 'cloud' and to share these between terminals.

Regardless of the make of your PPE, you can log all inspections, become notified of their forthcoming inspections and share information between terminals (smartphone, tablet, PC and Mac) as well as other people who have been given authorisation.

REGISTER



SAVE





NFC Near Field Connection

NFC is a new standard in RFID chips, ultra compact and flat, compatible with most new generation Smartphones. By bringing your phone close to the NFC chip, information relating to the item of PPE can be accessed directly and wirelessly without the need for specific software, similar to wireless payments which are already becoming commonplace. All PPE equipped with a TIP label can accommodate a NFC chip to allow kit management via smartphone.



CUSTOMIZATION

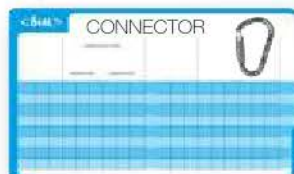
It is possible, through special order, to personalise certain helmets, harnesses and BEAL bags with your company's logo or other information required for your activities. This personalisation can be made to be reflective to provide additional safety.



STORE



LOOK UP / SHARE



SHARE



ALERT





PERFORMANCES

idN NUMBER **BEAL Code**

idN BEAL Color Code

Type A **Weight per metre** 65 g

Breaking load 3000 daN(kg) **% of the sheath** 38 %

Strength with sewn terminations 2400 daN(kg) **EN 1891**

ACCESS 10,5 mm UNICORE

Thanks to the **UNICORE** Process, Access ropes reach a new level in security. In effect, the **UNICORE** Process integral to this 10.5 mm rope will secure most delicate operations, whilst retaining lightness and flexibility.



PERFORMANCES

idN NUMBER **BEAL Code**

idN BEAL Color Code

Type A **Weight per metre** 73 g

Breaking load 3200 daN(kg) **% of the sheath** 36 %

Strength with sewn terminations 2400 daN(kg) **EN 1891**

ACCESS 11 mm UNICORE

With **UNICORE** as standard, bonding core and sheath for maximum security in all situations.



PERFORMANCES

idN NUMBER **BEAL Code**

idN BEAL Color Code

Type A **Weight per metre** 65 g

Breaking load 3000 daN(kg) **% of the sheath** 38 %

Strength with sewn terminations 2400 daN(kg) **EN 1891**

ANTIPODES 10,5 mm

Very tough, this is the established standard rope for work at height. Same construction as the INDUSTRIE 10.5 mm.



PERFORMANCES

idN BEAL Color Code

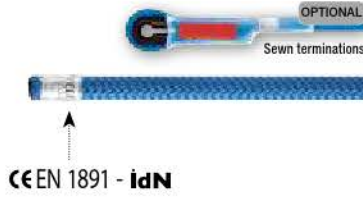
Type A Weight per metre 65 g

Breaking load 3000 daN(kg) % of the sheath 38 %

Strength with sewn terminations 2400 daN(kg) EN 1891

INDUSTRIE 10,5 mm

This rope is specially adapted to the requirements of work at height companies.



PERFORMANCES

idN BEAL Color Code

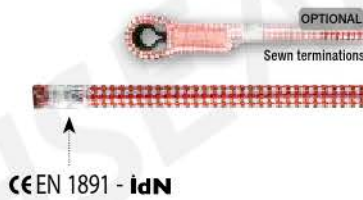
Type A Weight per metre 73 g

Breaking load 3200 daN(kg) % of the sheath 36 %

Strength with sewn terminations 2400 daN(kg) EN 1891

INDUSTRIE 11 mm

An ideal rope with no diameter restrictions for security in work at height.



PERFORMANCES

idN BEAL Color Code

Type A Weight per metre 68 g

Breaking load 2500 daN(kg) % of the sheath 36 %

Strength with sewn terminations 2200 daN(kg) EN 1891

CONTRACT 10,5 mm

Type A rope with the optimum balance quality/price.



PERFORMANCES

idN	BEAL Color Code
	A
Type	Weight per metre
	2600 daN(kg)
Breaking load	% of the sheath
	EN 1891

TOP WORK 10,5 mm

A rope particularly resistant to abrasion due to its higher percentage of sheath.



PERFORMANCES

idN	BEAL Color Code
	A
Type	Weight per metre
	2800 daN(kg)
Breaking load	% of the sheath
	EN 1891

NORTH SEA 11 mm

Specially developed in collaboration with one of the principal oil companies for use in difficult conditions on oil rigs. Great handling and maximum durability.

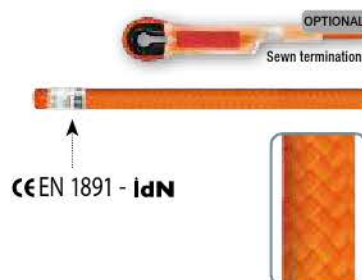


PERFORMANCES

idN	BEAL Color Code
	A
Type	Weight per metre
	3000 daN(kg)
Breaking load	% of the sheath
	2400 daN(kg)
Strength with sewn terminations	
	EN 1891

RESCUE 10,5 mm

Semi-static type A rope with a polyester sheath. Its fluorescent orange colour make it particularly suited for use in rescues.



DYNAMICS ROPES

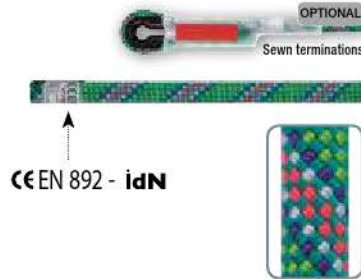
PERFORMANCES

idN	BEAL Color Code
	①
Type	Weight per metre
	% of the sheath icon"/>
Breaking load	% of the sheath
Strength with sewn terminations	EN 892

2100 daN(kg)
40%

1700 daN(kg)

TOP GUN II 10,5 mm UNICORE



Dynamic ropes cushion impacts and must be used during certain procedures to absorb the energy of possible falls.

PERFORMANCES

idN	BEAL Color Code
	①
Type	Weight per metre
	% of the sheath icon"/>
Breaking load	% of the sheath
	EN 892

2300 daN(kg)
35%

APOLLO 11 mm



ROPE AS4143.3

PERFORMANCES

idN	BEAL Color Code
	-
Type	Weight per metre
	% of the sheath icon"/>
Breaking load	% of the sheath
	AS4143.3

93,7g
42%

AUSTRALIS 11,5 mm

Specially developed to meet the requirements of Australian standard AS4143.3, this very low stretch rope has a sheath in polyester and is constructed like the American ropes.

Strong points:

- Reduction in shrinkage (polyester).
- Better heat resistance (Melting point of polyester 260° C).
- Better abrasion resistance due to a thick sheath.



ROPES RESISTANT TO HIGH TEMPERATURES



EFFECT OF HIGH TEMPERATURES ON ARAMID

The resistance of Aramid to high temperatures is best illustrated by the graph illustrating the residual strength after exposure to raised temperatures. Thus we may for example see that after 10 hours of exposure at 200°C it retains 100% of its strength, or that after 1 hour at 350°C it retains 90% of its strength.

TEST WITH BLOWTORCH

Semi-static rope holding a mass of 100 kg exposed to a temperature of 400°C (+ or- 50°C) for 15 minutes:

Results:

- Classic 11 mm rope: Break after **around 40 seconds**.
- RAIDER 11 mm rope: Residual strength **around 1500 daN** after 15 minutes.

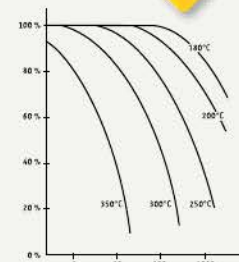
- RAIDER TACTIC 11 mm rope: residual strength **around 1000 daN** after 15 minutes.

TEST AGAINST A RED HOT BAR

The rope supports a 100 kg mass. It is held clear of a 25 mm bar heated red-hot. It is released against the bar and the time to rupture measured.

Results:

- Classic 11 mm rope: **3 seconds**
- HOTLINE 11 mm: **5 seconds**
- RAIDER TACTIC 11 mm: **8 seconds**
- RAIDER 11 mm: **18 seconds**



Relationship between time of exposure at high temperature and residual strength of Aramid.

RAIDER 11 mm

Semi-static Type B rope with an Aramid sheath capable of withstanding a long period close to a major source of heat.



PERFORMANCES

IdN NUMBER: BEAL Color Code

Type	Raider B	Raider Tactic A	Weight per metre	Raider 81 g	Raider Tactic 75 g
Breaking load	Raider 2600 daN(kg)	Raider Tactic 2400 daN(kg)	% of the sheath	Raider 41 %	Raider Tactic 30 %
Strength with sewn terminations	2200 daN(kg)	CE EN 1891			



RAIDER TACTIC 11 mm

The thickness of the sheath of RAIDER TACTIC has been reduced and the quantity of the core increased to allow it to be certified as a Type A rope.



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ROPES RESISTANT TO CHEMICAL PRODUCTS



ACIDS	Residual Tenacity In %age
Hydrochloric 20% at 20° C	98%
Nitric 10% at 20° C	99%
Sulphuric 20% at 95° C	93%
Sulphuric 40% at 95° C	89%
Acetic 40% at 95° C	97%
Formic 90% at 95° C	82%

CHEMICAL RESISTANCE OF ARAMID YARN
(exposure for 100 hours)

BASES	Residual Tenacity In %age
Soda 10% at 95° C	75%
Wet cement at 95° C	93%
Ammonia at 20° C	100%

OTHER CHEMICAL PRODUCTS	Residual Tenacity In %age
Petrol / Gas	98%
Benzene	98%
Methyl Ethyl Cetone	97%
Ethylene Glycol	94%
Phenol	95%
Sea water	100%

PERFORMANCES

idN NUMBER BEAL Color Code

Type: A

Weight per metre: 79 g

Breaking load: 2500 daN(kg)

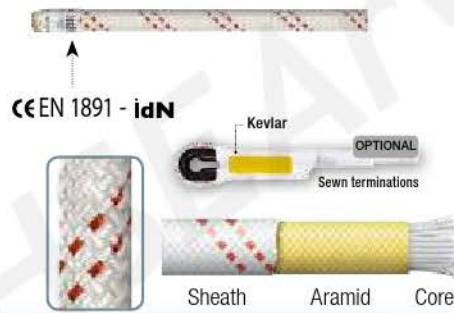
% of the sheath: 42%

Strength with sewn terminations: 2200 daN(kg)

CE EN 1891

HOTLINE 11 mm

Semi-static rope with an interior sheath in Aramid, covered by a classic sheath. HOTLINE rope allows access in the presence of certain dangerous chemicals.



PERFORMANCES

idN NUMBER BEAL Color Code

Type: B

Weight per metre: 68 g

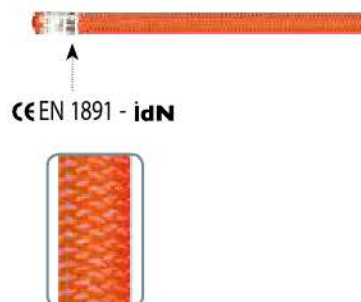
Breaking load: 2600 daN(kg)

% of the sheath: 43%

CE EN 1891

PRO CANYON 10,7 mm

Semi-static rope with polyester sheath and polypropylene core. These materials make the rope more resistant to acidic environments.



UNIVERSAL ROPE TO BOTH STANDARDS EN 892 & EN 1891

PERFORMANCES

IdN NUMBER **BEAL Code**

idN BEAL Color Code

Type A **Weight per metre** 75 g

Breaking load 2500 daN(kg) **% of the sheath** 43%

Strength with sewn terminations 1900 daN(kg) **EN 892 EN 1891**

DYNASTAT 10,5 mm



Security rope which conforms to 2 standards, both the semi-static and the dynamic rope standards. It's thus a classic semi-static rope well adapted to various types of work on ropes, to rescue, and to tactical applications. In event of a very violent fall an internal Vectran 'fuse' will rupture, and the rope then becomes dynamic, with all the security that characterises dynamic ropes. The fuse will rupture under a force of around 3 kN. In addition, DYNASTAT resists a fall factor 1 drop holding 100 kg over a sharp metal edge of 0.75 mm radius. Ideal for delicate operations at height, pylon climbing, clock towers, rescue and fast technical intervention.

Strong points:

- Semi-static and dynamic rope giving security in a wide range of circumstances.
- Very low stretch of just 2 % in use.
- Semi-static rope that does not shrink, and thus doesn't stiffen up.
- A rope that's supple, with very agreeable handling.



CE EN 892 + EN 1891 - IdN



OPTIONAL Sewn terminations

PERFORMANCES

IdN NUMBER **BEAL Code**

idN BEAL Color Code

Type A **Weight per metre** 80 g

Breaking load 2500 daN(kg) **% of the sheath** 33%

EN 1891

FLOATING ROPE

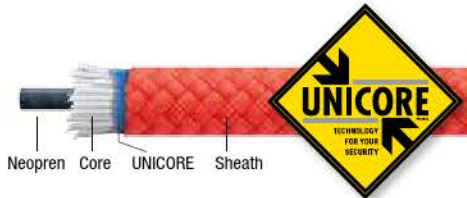
PRO WATER 11 mm UNICORE



Floating type A semi-static rope for work at height above water (off-shore wind farms, oil rigs). It can also be used for swift water rescues. A new patented technique allows PRO WATER 11 mm to become the first floating semi-static type A rope on the market. Thanks to limited shrinking in water, its suppleness is maintained and knots remain easy to tie. In case of an operative falling into water, boat based emergency services can easily see this orange rope which, because of its floatability, is unlikely to get tangled in propellers. PRO WATER rope benefits from all the advantages of UNICORE technology thus giving it a real increase in security.



CE EN 1891 - IdN





PERFORMANCES

idN NUMBER BEAL Color Code

9 mm B 10 mm A

9 mm 51 g 10 mm 62 g

Type Weight per metre

9 mm 1900 daN(kg) 10 mm 2400 daN(kg)

Breaking load % of the sheath 43%

EN 1891

ANTIPODES 9 mm

Semi-Static type B rope, ultra light, but necessitating great care during use.



CEEN 1891 - idN

ANTIPODES 10 mm

The lightest of the type A ropes with a margin of security sufficient for some industrial uses.



CEEN 1891 - idN

LARGER DIMENSION ROPES



PERFORMANCES

idN NUMBER BEAL Color Code

A

78 g

Type Weight per metre

3400 daN(kg) 38%

Breaking load % of the sheath

2600 daN(kg)

Strength with sewn terminations EN 1891

ANTIPODES 11,5 mm

Great abrasion resistance for the most demanding applications.



CEEN 1891 - idN



PERFORMANCES

idN NUMBER BEAL Color Code

A

101 g

Type Weight per metre

3800 daN(kg) 43%

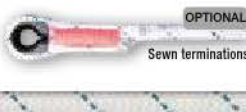
Breaking load % of the sheath

2700 daN(kg)

Strength with sewn terminations EN 1891

ERGO 12,5 mm

Designed to meet the needs of firefighters in their different tasks, conforming to civil security code NIT no. 129-83-92 and to the Standard EN 1891.



CEEN 1891 - idN



PERFORMANCES

idN NUMBER	BEAL Color Code
idN	BEAL Color Code
Type	A
Weight per metre	119 g
Breaking load	3000 daN(kg)
% of the sheath	82 %
Strength with sewn terminations	2300 daN(kg)
	EN 1891

BAOBAB 13,5 mm UNICORE



Its braiding results from the technology of American tree workers, giving it great qualities of strength, pliability and easy handling. The **UNICORE** process which bonds the core and sheath prevents sheath slippage during use with self-locking loops.


PERFORMANCES

idN NUMBER	BEAL Color Code
idN	BEAL Color Code
Type	A
Weight per metre	92 g
Breaking load	2700 daN(kg)
% of the sheath	69 %
Strength with sewn terminations	2200 daN(kg)
	EN 1891

GINKGO 12 mm

Made along the same lines as the BAOBAB, its thinner diameter makes a lighter rope, more supple and easier to handle than BAOBAB. It benefits from a new, glueless procedure for bonding the sheath onto the core, preventing all slippage, but still allowing splices to be made.


PERFORMANCES

idN NUMBER	BEAL Color Code
idN	BEAL Color Code
Type	A
Weight per metre	98 g
Breaking load	3400 daN(kg)
% of the sheath	61 %
Strength with sewn terminations	2500 daN(kg)
	EN 1891

BONSAI 13 mm

This multi-use rope, with an excellent handling/solidity balance, allows you to undertake all types of tree work in full security.


PERFORMANCES

idN NUMBER	BEAL Color Code
idN	BEAL Color Code
Type	-
Weight per metre	75 g
Breaking load	1700 daN(kg)

REGATE 10 mm

Its double braid polyester serves to make prusik loops. This 10 mm diameter rope, with high abrasion resistance, runs perfectly.



DISMANTLING SLINGS

Slings allowing a pulley to be fixed at height in the tree, and on the other hand the braking system at the base of the trunk.

ADJUSTABLE TRUNK SLING

Manufactured from hollow braid polyester with a polyurethane coating, this adjustable sling is principally designed for the attachment of braking systems at ground level, at the base of the trunk. Its conception allows it to adapt exactly to different trunk diameters.

Available in 3 lengths: 3, 5 and 7 m.



TOP TRUNK SLING (Pulley attachment)

Manufactured from hollow braid polyester with a polyurethane coating, this sling is specifically adapted to light removals up to 1100 daN(kg) WLL.

Available in two lengths: 3 and 4 m.



TOP TRUNK DYNEEMA 5 m SLING (High strength pulley attachment)

Of identical construction to TOP TRUNK, with a Dyneema sheath which gives it exceptional breaking load and a WLL of more than 2000 daN(kg) !



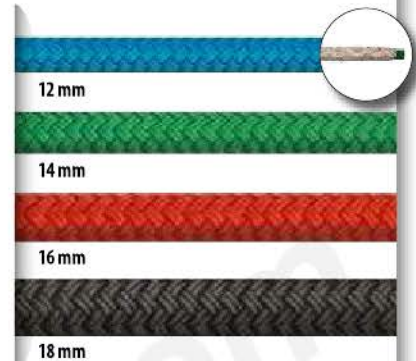
	TRUNK	TOP TRUNK	TOP TRUNK DYNEEMA
Diameter	20 mm	20 mm	18 mm
Breaking load	8000 daN(kg)	8000 daN(kg)	18000 daN(kg)
CMU	1100 daN(kg)	1100 daN(kg)	2500 daN(kg)
Weight per metre	240 g	240 g	160 g
Material	Polyester	Polyester	Dyneema

RETENTION ROPES

The regulations require the application of a coefficient of 7 to all lifting ropes. Breaking load divided by 7 = WLL (Working Load Limit). The weight of the branches must not exceed the Working Load Limit for dismantling in total security. BEAL retention ropes are colour coded by diameter and thus by strength in order to avoid errors.

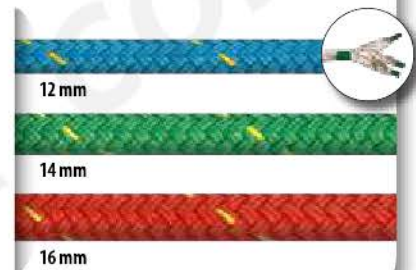
GOLIATH

Coming from the technology of American tree dismantling ropes, GOLIATH is a static double braid rope of 100 % polyester pre-stretched with a polyurethane coating for better abrasion resistance. This rope has an excellent strength/diameter ratio.



SUPER GOLIATH

The top tree dismantling rope. Made on the same basis as GOLIATH, its twisted core makes it more break resistant for lowering the heaviest loads.



VOLCANO 10 mm / 12 mm

Short lengths of rope with sewn terminations for constructing self-locking (prusik) loops. These ropes have a 50 % aramid construction intermixed with polyester filaments. Prusiks made from classic ropes have a very short life, because they glaze in use due to the effect of friction. The presence of 50 % of highly thermally resistant aramid fibres in VOLCANO protect it against melting and thus greatly increases its lifetime.

Available in 10 and 12 mm, and 70 and 90 cm lengths, to suit different types of knots.

The 10 mm VOLCANO also comes in cut lengths:

- In multiples of 10 cm.
- Maximum length 200 cm.
- Minimum 50 pieces per length.

CE EN 354

Diameter	10 mm / 12 mm
Length	70 cm / 90 cm
Breaking load	2200 daN(kg)



	GOLIATH 12 mm	GOLIATH 14 mm	GOLIATH 16 mm	GOLIATH 18 mm	SUPER GOLIATH 12 mm	SUPER GOLIATH 14 mm	SUPER GOLIATH 16 mm
Diameter	12 mm	14 mm	16 mm	18 mm	12 mm	14 mm	16 mm
Breaking load	4200 daN(kg)	5500 daN(kg)	6700 daN(kg)	8000 daN(kg)	4700 daN(kg)	6300 daN(kg)	7300 daN(kg)
CMU	600 daN(kg)	780 daN(kg)	950 daN(kg)	1000 daN(kg)	770 daN(kg)	930 daN(kg)	1140 daN(kg)
Weight per metre	128 g	179 g	219 g	260 g	137 g	194 g	236 g
Material	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester	Polyester



PERFORMANCES

IdN NUMBER

idN

Type **B**

Weight per metre
10,5 mm: 69g
11 mm: 81g

Breaking load
10,5 mm: 2300 daN(kg)
11 mm: 2600 daN(kg)

% of the sheath
10,5 mm: 32%
11 mm: 41%

Strength with sewn terminations **2200 daN(kg)**

CE EN 1891

RAIDER 10,5 mm et 11 mm



Type B semi-static ropes specially developed for rapid descent from helicopters by special forces. Their Aramid sheath does not melt, even against a descender overheated by the descent. Whereas classic ropes in polyamide or polyester have a very limited lifetime because their sheath melts, rendering the rope stiff and useless, RAIDER ropes permit multiple descents.



PERFORMANCES

IdN NUMBER

idN

Type **A**

Weight per metre **75g**

Breaking load **2400 daN(kg)**

% of the sheath **30%**

Strength with sewn terminations **2200 daN(kg)**

CE EN 1891

RAIDER TACTIC 11 mm



As with the 11 mm RAIDER rope, designed for multiple descents, the RAIDER TACTIC 11 mm is slightly more limited. The thickness of the Aramid sheath has been reduced, and the amount of core increased, in order for RAIDER TACTIC 11 mm to be certifiable as a Type A rope.



PERFORMANCES

IdN NUMBER

BEAL Color Code

idN **TOP GUN II ①** **COBRA II ①/2**

Type

Weight per metre
TOP GUN II 68g
COBRA II 48g

Breaking load
TOP GUN II 2100 daN(kg)
COBRA II 39%

% of the sheath
TOP GUN II 40%
COBRA II 39%

Strength with sewn terminations **1700 daN(kg)**

CE EN 892

Dynamic ropes cushion impacts and must be used during certain interventions to absorb the energy of any falls.

TOP GUN II 10,5 mm UNICORE ①

COBRA II 8,6 mm UNICORE ①/2



PERFORMANCES

idN NUMBER **BEAL Color Code**

idN: A

Type: A

Weight per metre: 65 g

Breaking load: 3000 daN(kg)

% of the sheath: 38 %

Strength with sewn terminations: 2400 daN(kg)

CE EN 1891

ACCESS 10,5 mm UNICORE



Thanks to the **UNICORE** Process, ACCESS ropes reach a new level in security. By special order only.



PERFORMANCES

idN NUMBER **BEAL Color Code**

idN: A

Type: A

Weight per metre: 9 mm: 51 g, 10 mm: 62 g, 10,5 mm: 65 g, 11 mm: 73 g, 11,5 mm: 78 g

Breaking load: 9 mm: 1900 daN(kg), 10 mm: 2400 daN(kg), 10,5 mm: 3000 daN(kg), 11 mm: 3200 daN(kg), 11,5 mm: 3400 daN(kg)

% of the sheath: 9 mm: 43%, 10 mm: 43%, 10,5 mm: 38%, 11 mm: 36%, 11,5 mm: 38%

Strength with sewn terminations: 9 mm: 2400 daN(kg), 10 mm: 2400 daN(kg), 11 mm: 2400 daN(kg), 11,5 mm: 2600 daN(kg)

CE EN 1891

INTERVENTION

Semi-static ropes are endowed with moderate stretch to facilitate interventions and abseils at moderate speed.



TAPES AND SLINGS

FLAT WEBBING



26 mm / 1500 kg / CE EN 565

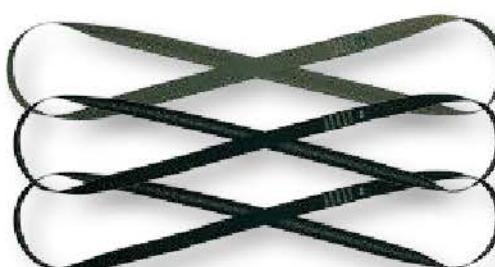
18 mm / 1600 kg / CE EN 565

TUBULAR WEBBING



26 mm / 1600 kg / CE EN 565

ROUND SLINGS



30 mm / 2200 kg / CE EN 566

26 mm / 2200 kg / CE EN 566

18 mm / 2200 kg / CE EN 566 + CE EN 795 B + CE EN 354

Tested and approved by special forces around the world, BEAL FAST ROPE has been specifically developed for rapid descent from helicopters without the aid of a descender, just the friction of gloves !

SOFT FAST ROPE 40 mm

Its soft and flexible construction promotes a comfortable and precise descent.

FAST ROPE is available with 3 types of termination:

- **EYE SPLICE:** A large diameter splice, facilitating the deployment of the rope from scaffolding and larger beams, in order to simulate practice descents from helicopters.
- **MFT. MultiFit termination:** A metal connector which will allow the rapid attachment and freeing of the rope from the hooks fitted into most large load carrying helicopters.
- **DLT. Dynalite termination (not available in France):** Lightweight textile termination, composed of a Dyneema sling spliced onto the rope end. Allows rapid fixing to most anchor points. At the moment of release the absence of metal in the termination eliminates the risk of injury to persons, or damage to boat bridges.

The DLT termination must be checked before every use.



TEXTURIZED FAST ROPE 44 mm

Its construction from completely textured strands makes the rope more slippery yet more durable.

- **Polyamide sling termination.** Suitable for most anchors. No metal part that can cause injury.
- **Metal termination:** a crimped metal end piece allows the rope to be fixed to a helicopter.



© Philippe Poulet



Model	Standard	Certification	Type	Breaking load	Strength with Figure-of-8 knot	Strength with Figure-of-9 knot	Strength with sewn terminations	Number of fall factor 1	Impact force factor 0.3	Extension 50/150 kg	Sheath slippage	Weight per metre	% of the sheath	Mass of the core	Shrinkage in water	Material
ROPES FOR DIFFICULT AREA ACCESS																
ACCESS 10,5mm UNICORE	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3%	0,8%	65g	38%	62%	5%	Polyamide
ACCESS 11 mm UNICORE	EN 1891	CE	A	3200 daN(kg)	2100 daN(kg)	2200 daN(kg)	2400 daN(kg)	20	5,1 kN	2,8%	0,8%	73g	36%	64%	4%	Polyamide
ANTIPODES 10,5mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3%	0,8%	65g	38%	62%	5%	Polyamide
INDUSTRIE 10,5mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3%	0,8%	65g	38%	62%	5%	Polyamide
INDUSTRIE 11 mm	EN 1891	CE	A	3200 daN(kg)	2100 daN(kg)	2200 daN(kg)	2400 daN(kg)	20	5,1 kN	2,8%	0,8%	73g	36%	64%	4%	Polyamide
CONTRACT 10,5mm	EN 1891	CE	A	2500 daN(kg)	1750 daN(kg)	2000 daN(kg)	2200 daN(kg)	12	5,6kN	3%	0%	68g	36%	64%	4%	Polyamide
TOP WORK 10,5mm	EN 1891	CE	A	2600 daN(kg)	1800 daN(kg)	2000 daN(kg)	-	15	4,6kN	4,8%	0,3%	64g	44%	56%	3,5%	Polyamide
NORTH SEA 11 mm	EN 1891	CE	A	2800 daN(kg)	1900 daN(kg)	2000 daN(kg)	-	> 20	5,1 kN	4%	0,9%	75g	44%	56%	3%	Polyamide
RESCUE 10,5 mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	-	2400 daN(kg)	16	5,1 kN	3%	0,8%	65g	38%	62%	5%	Sheath: Polyester Core: Polyamide
TOP GUN II 10,5mm UNICORE	EN 892	CE	Ⓢ	2100 daN(kg)	-	-	1700 daN(kg)	Factor 2 11	-	-	-	68g	40%	60%	-	Polyamide
APOLLO 11 mm	EN 892	CE	Ⓢ	2300 daN(kg)	-	-	-	Factor 2 16	-	-	-	75g	35%	65%	-	Polyamide
SPECIAL ROPES																
DYNASTAT 10,5mm	EN 892 EN 1891	CE	A Ⓢ	2500 daN(kg)	1650 daN(kg)	1700 daN(kg)	1900 daN(kg)	24 Factor 2 10	4,3kN	2%	0,8%	75g	43%	56%	0%	Sheath: Polyamide Core: Polyamide/ Vectran
PRO WATER 11 mm UNICORE	EN 1891	CE	A	2500 daN(kg)	1600 daN(kg)	-	-	5	5kN	3,6%	0%	80g	33%	67%	0%	Polyamide/Neopren
RAIDER TACTIC 11 mm	EN 1891	CE	A	2400 daN(kg)	1800 daN(kg)	-	2200 daN(kg)	6	5,9kN	3,2%	0%	75g	30%	70%	0,5%	Sheath: Aramid Core: Polyamide
HOTLINE 11 mm	EN 1891	CE	A	2500 daN(kg)	1900 daN(kg)	-	2200 daN(kg)	15	5,6kN	3,1%	0%	79g	42%	58%	3,3%	Sheath: Polyamide Core: Polyamide/Aramid
LIGHTWEIGHT ROPES																
ANTIPODES 9mm	EN 1891	CE	B	1900 daN(kg)	1350 daN(kg)	1600 daN(kg)	-	8	4kN	3,6%	0,3%	51g	43%	57%	4%	Polyamide
ANTIPODES 10 mm	EN 1891	CE	A	2400 daN(kg)	1700 daN(kg)	1800 daN(kg)	-	6	4,3kN	4,4%	0%	62g	43%	57%	4%	Polyamide
LARGER DIMENSION ROPES																
ANTIPODES 11,5mm	EN 1891	CE	A	3400 daN(kg)	2300 daN(kg)	2400 daN(kg)	2600 daN(kg)	> 20	5,3kN	2,6%	0,5%	78g	38%	62%	5%	Polyamide
ERGO 12,5mm	EN 1891	CE	A	3800 daN(kg)	2500 daN(kg)	-	2700 daN(kg)	> 20	5,2kN	2,9%	0%	101g	43%	57%	3,7%	Polyamide
ROPES FOR TREE WORK																
BAOBAB 13,5mm UNICORE	EN 1891	CE	A	3000 daN(kg)	1900 daN(kg)	-	2300 daN(kg)	> 20	5,1 kN	5%	0%	119g	82%	18%	2%	Sheath: Polyester Core: Polyamide
GINKGO 12mm	EN 1891	CE	A	2700 daN(kg)	1600 daN(kg)	-	2200 daN(kg)	> 8	5,7kN	4%	0%	92g	69%	31%	2,8%	Sheath: Polyester Core: Polyamide
BONSAI 13mm	EN 1891	CE	A	3400 daN(kg)	1800 daN(kg)	-	2500 daN(kg)	> 20	5,3kN	4,2%	0%	98g	61%	39%	4,5%	Polyamide
REGATE 10mm	-	CE	-	1700 daN(kg)	-	-	-	-	-	-	-	75g	-	-	-	Polyester
INTERVENTION ROPES																
RAIDER 11 mm	EN 1891	CE	B	2600 daN(kg)	1900 daN(kg)	-	2200 daN(kg)	8	4,7 kN	3,3%	0,6%	81g	41%	59%	0,5%	Sheath: Aramid Core: Polyamide
RAIDER TACTIC 11 mm	EN 1891	CE	A	2400 daN(kg)	1800 daN(kg)	-	2200 daN(kg)	6	5,9kN	3,2%	0%	75g	30%	70%	0,5%	Sheath: Aramid Core: Polyamide
ACCESS 10,5mm UNICORE	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3%	0,8%	65g	38%	62%	5%	Polyamide
INTERVENTION 9mm	EN 1891	CE	B	1900 daN(kg)	1350 daN(kg)	1600 daN(kg)	-	8	4kN	3,6%	0,3%	51g	43%	57%	4%	Polyamide
INTERVENTION 10 mm	EN 1891	CE	A	2400 daN(kg)	1700 daN(kg)	1800 daN(kg)	-	6	4,3kN	4,4%	0%	62g	43%	57%	4%	Polyamide
INTERVENTION 10,5mm	EN 1891	CE	A	3000 daN(kg)	1950 daN(kg)	2100 daN(kg)	2400 daN(kg)	16	5,1 kN	3%	0,8%	65g	38%	62%	5%	Polyamide
INTERVENTION 11 mm	EN 1891	CE	A	3200 daN(kg)	2100 daN(kg)	2200 daN(kg)	2400 daN(kg)	20	5,1 kN	2,8%	0,8%	73g	36%	64%	4%	Polyamide
INTERVENTION 11,5mm	EN 1891	CE	A	3400 daN(kg)	2300 daN(kg)	2400 daN(kg)	2600 daN(kg)	> 20	5,3kN	2,6%	0,5%	78g	38%	62%	5%	Polyamide
TOP GUN II 10,5mm UNICORE	EN 892	CE	Ⓢ	2100 daN(kg)	-	-	1700 daN(kg)	Factor 2 11	-	-	-	68g	40%	60%	-	Polyamide
COBRA II 8,6mm UNICORE	EN 892	CE	Ⓢ	-	-	-	-	Factor 2 16	-	-	-	48g	39%	61%	-	Polyamide
SOFT FAST ROPE 40 mm	-	-	-	7600 daN(kg)	-	-	-	-	-	-	-	94kg /100m	-	-	-	Polyamide
TEXTURIZED FAST ROPE 44 mm	-	-	-	Polyamide sling termination: 6000 kg	-	-	-	-	-	-	-	96kg /100m	-	-	-	-
				Metal termination: 3000 kg												
Standard reference	EN 1891	-	Type A	>2200 daN(kg)	>1500 daN(kg)	-	>1500 daN(kg)	> 5/100 kg	< 6kN	≤ 5%	20mm+10 (D-9mm)	-	-	-	-	-
			Type B	>1800 daN(kg)	>1200 daN(kg)	-	>1200 daN(kg)	> 5/80 kg	< 6kN	≤ 5%	< 15mm	-	-	-	-	-

PERFORMANCES



ABSORB'AIR

Webbing construction energy absorber. Energy is absorbed through the controlled tearing of the webbing's weft during deployment.

Strong points:

- Compact and lightweight.
- Easy to open semi-rigid pouch.
- Easy to inspect in its entirety.
- Easy to dry once unrolled.
- Can be combined with a DYNAPRO lanyard to create a lanyard with energy absorber.
- Marked with a unique serial number and labelled to accommodate personal markings as well as a QR code to assist traceability.



PERFORMANCES

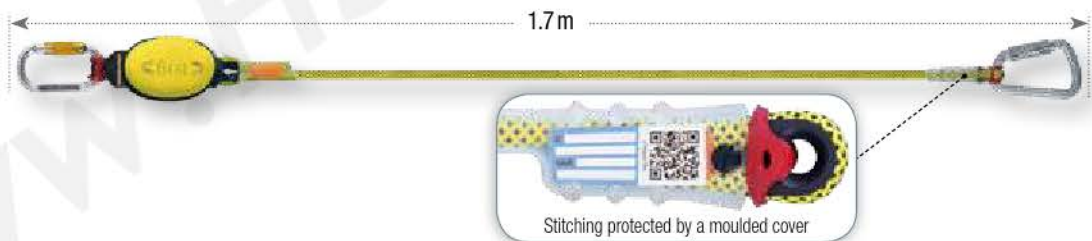


DYNAPRO-AIR LIFE LINE

Fall arrest lanyard with integral energy absorber (EN355 + EN 362) for progression on a fixed line.

Strong points:

- ABSORB'AIR shock absorber integrated with the DYNAPRO lanyard.
- Supplied with an AIR SMITH 3-MATIC steel connector for connection to a working line trolley or directly to its cable, as well as a O'LIGHT 3-MATIC connector for connection to the harness.
- Sewn termination with reinforced eye to protect the rope.
- Removable cover allows the inspection of termination stitches.
- Marked with a unique serial number and equipped with a label to accommodate personal markings as well as a QR code to assist traceability.
- Length (including connectors and shock absorbers): 1.70m.



PERFORMANCES



DYNAPRO-AIR V LIFE LINE

V-shaped fall arrest lanyard with an integral energy absorber (EN355 + EN362). It is a lanyard for progression on a fixed line. It is well adapted for passing intermediate anchors on cables when there is no trolley on the working line.

Strong points:

- ABSORB'AIR absorber integral with V lanyard.
- Supplied with 2 AIR-SMITH 3-MATIC steel connectors for clipping to the cable and one O'LIGHT 3-MATIC for connecting to the harness.
- Sewn termination with reinforced eye to protect the rope.
- Removable cover allows the inspection of termination stitches.
- Marked with a unique serial number and equipped with a label to accommodate personal markings as well as a QR code to assist traceability.
- Length (including connectors and shock absorbers): 1.70 m.



PERFORMANCES

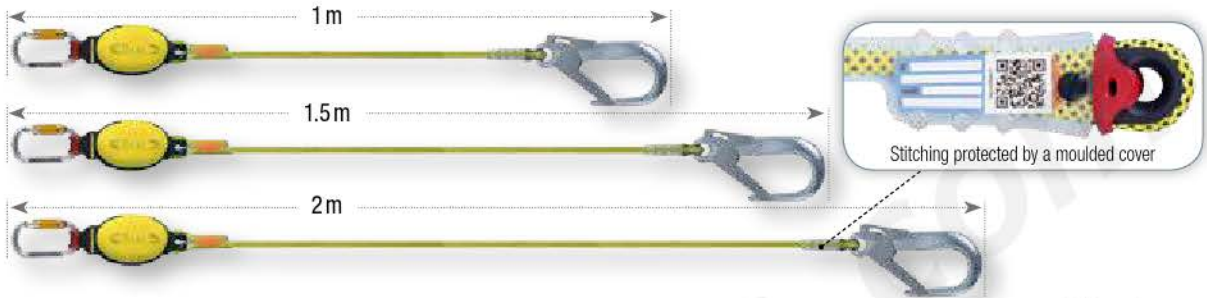


DYNAPRO-AIR HOOK

Fall arrest lanyard with integrated energy absorber (EN355 + EN 362) designed for work environments with a fall risk.

Strong points:

- ABSORB'AIR absorber combined with DYNAPRO lanyard.
- Supplied with an AIR-HOOK LARGE connector to connect to the anchor point and an O'LIGHT 3-MATIC connector to connect to the harness.
- Sewn terminations with reinforced eyes to protect the rope.
- Removable cover allows the inspection of termination stitches.
- Marked with a unique serial number and equipped with a label to accommodate personal markings as well as a QR code to assist traceability.
- Available in 3 lengths (including connectors and absorber): 1m / 1.5m / 2m.



PERFORMANCES

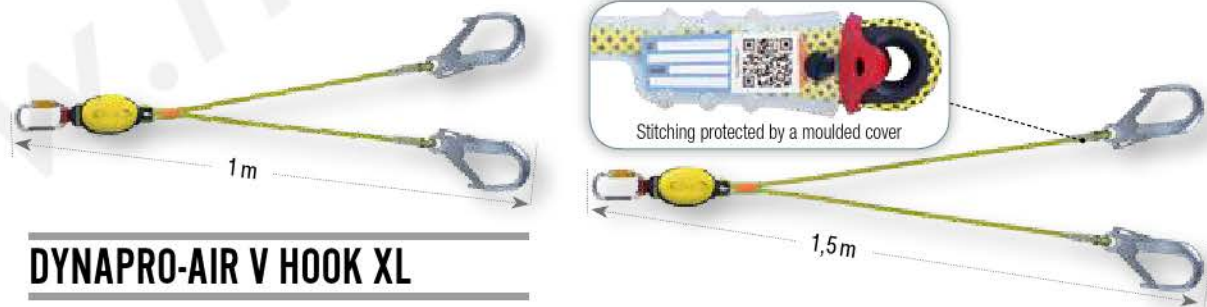


DYNAPRO-AIR V HOOK

V-shaped fall arrest lanyard with integrated energy absorber (EN355 + EN362). Designed as a progression lanyard for work environments with a fall risk, it is well adapted to structures where anchor points are cables, bars or beams.

Strong points:

- ABSORB'AIR absorber combined with a V-shaped lanyard.
- V-shaped lanyard with two symmetrical rope legs for progression using fall arrest techniques.
- Supplied with 2 AIR-HOOK LARGE connectors to clip anchor points and an O'LIGHT 3-MATIC connector to connect to the harness.
- Sewn terminations with reinforced eyes to protect the rope.
- 2 removable covers allow the inspection of termination stitches.
- Marked with a unique serial number and equipped with a label to accommodate personal markings as well as a QR code to assist traceability.
- Available in 2 lengths (including connectors and absorber): 1m / 1.5m.



PERFORMANCES

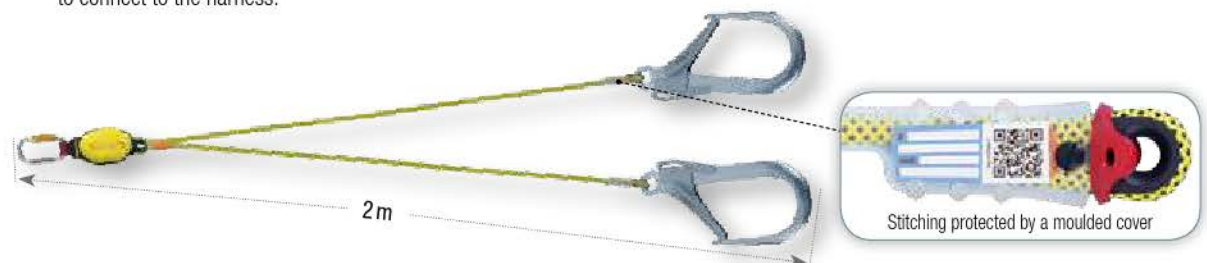


DYNAPRO-AIR V HOOK XL

V-shaped fall arrest lanyard with integrated energy absorber (EN355 + EN 362). Designed as a progression lanyard for work environments with a fall risk, the size of its connectors make it particularly suited to metal structures.

Strong points:

- ABSORB'AIR absorber combined with a V-shaped lanyard.
- V-shaped lanyard with two symmetrical rope legs for progression using fall arrest techniques. Its 2 two metre legs allow fluid progression on large structures.
- Supplied with 2 AIR-HOOK XL connectors that can clip anchors on large structures as well as an O'LIGHT 3-MATIC connector to connect to the harness.
- Sewn terminations with reinforced eyes to protect the rope.
- 2 removable covers allow the inspection of termination stitches.
- Marked with a unique serial number and equipped with a label to accommodate personal markings as well as a QR code to assist traceability.
- Available in 1 length (including connector and absorber): 2m.



PERFORMANCES

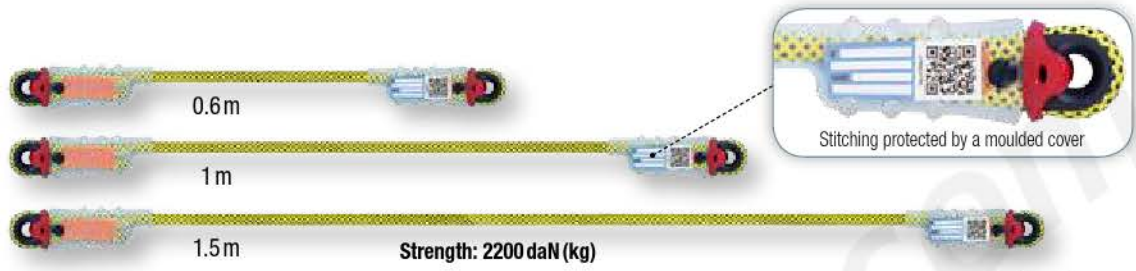


DYNAPRO

Simple dynamic rope lanyard with sewn termination for work restraint. The dynamic characteristics of this lanyard are far superior to those of a traditional static lanyard.

Strong points:

- Perfectly adapted for work positioning at height.
- Sewn termination with reinforced eye to protect the rope as well as a PINCH to assist connector orientation.
- Enhanced level of protection thanks to the use of a dynamic rope.
- Removable cover allows the inspection of termination stitches.
- Marked with a unique serial number and labelled to accommodate personal markings as well as a QR code to assist traceability.



PERFORMANCES

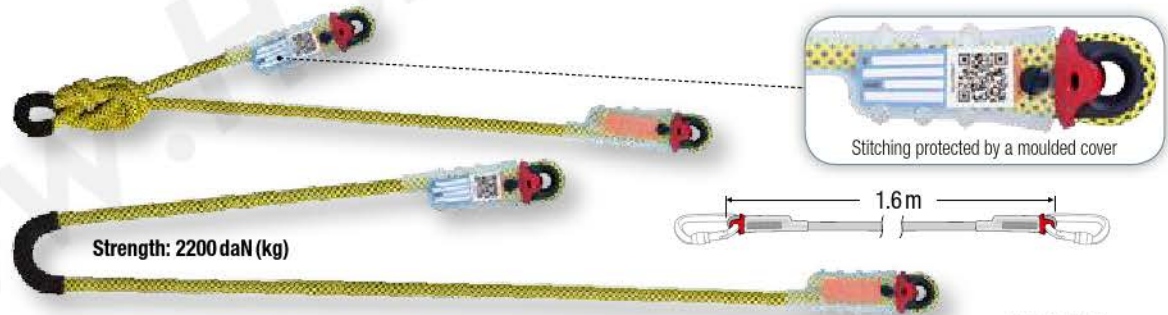


DYNAPRO 8

Adjustable, dynamic rope lanyard with sewn terminations. The dynamic performance of this lanyard is greatly superior to that of traditional static lanyards. By making your own double fig-8 knot point of attachment to your harness you can obtain an assymetric 'V' lanyard adjusted to your needs. The lanyard thus made, in conformity with the notice, meets Standard EN 354.

Strong points:

- Possible to clip long or short.
- Ability to pass intermediate anchors thanks to the 2 branches.
- Sewn terminations fitted with a sleeve to protect the rope and a pinch to hold the karabiner in position.
- Improved security in the event of a fall (even of high factor) on the lanyard because of the use of dynamic rope.
- Attach with a maillon rapide or directly onto the chest ring.



PERFORMANCES

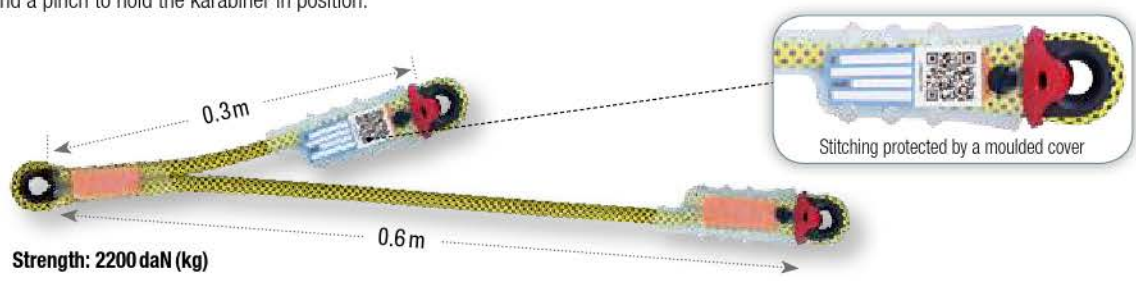


DYNAPRO V

Assymmetric 'V' dynamic rope lanyard with sewn terminations. The dynamic performance of this lanyard is greatly superior to that of traditional static lanyards.

Strong points:

- Perfectly adapted to work at height and rescue.
- Ability to clip-in short or long.
- Ability to pass intermediate anchors thanks to the 2 branches.
- Sewn terminations fitted with a sleeve to protect the rope and a pinch to hold the karabiner in position.
- Improved security in the event of a fall (even of high factor) on the lanyard because of the use of dynamic rope.
- Secure with a maillon rapide.



PERFORMANCES



ADJUST'AIR

Adjustable (EN358) work positioning lanyard in 12.5mm semi-static rope.

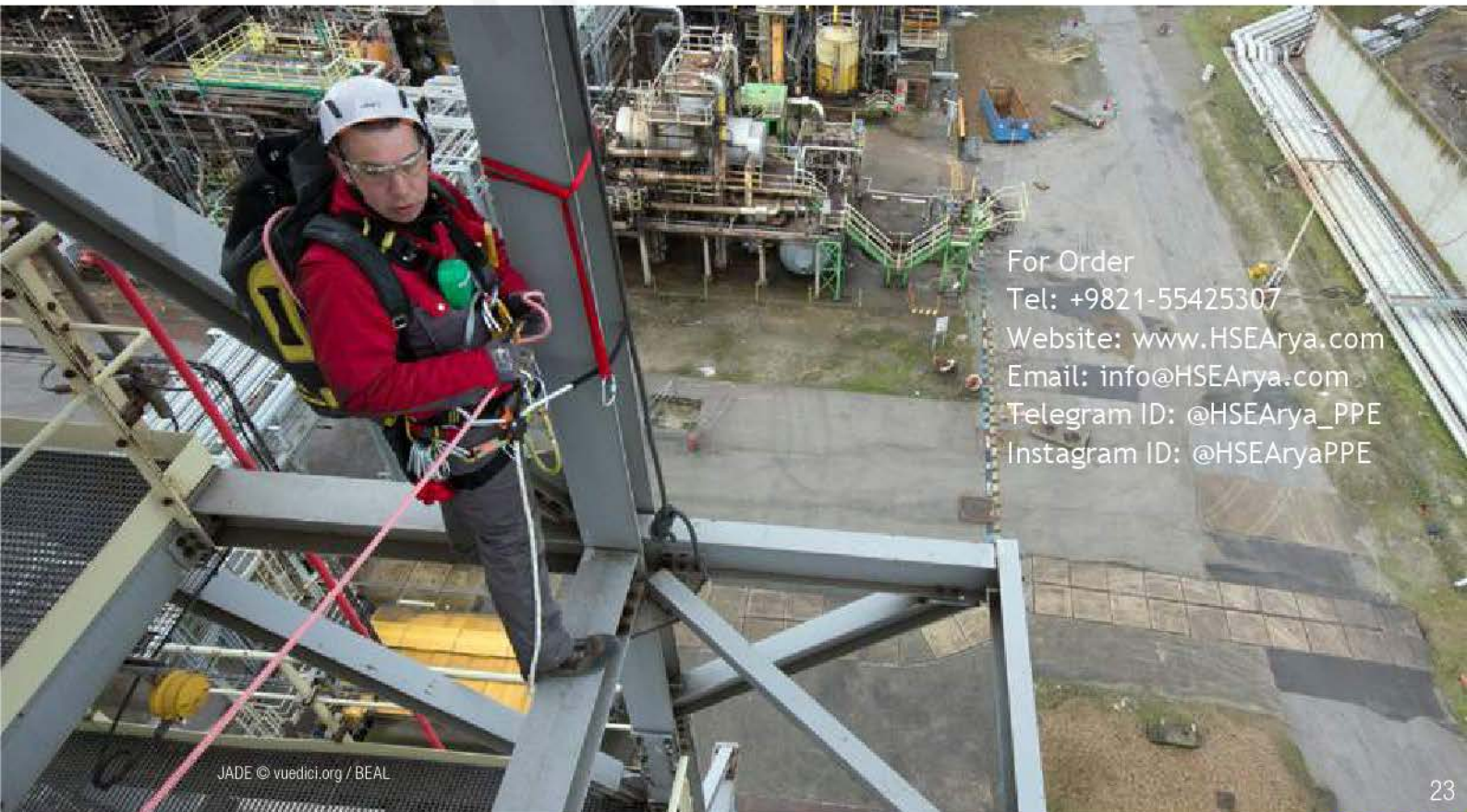
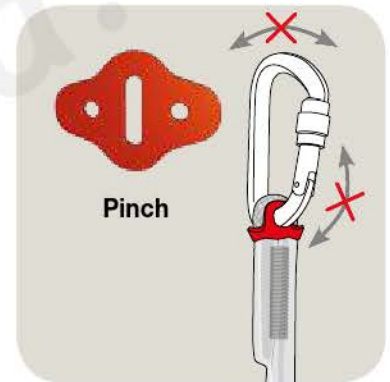
Strong points:

- Ergonomic, captive rope clamp.
- Available in 3 lengths: 2 m / 3 m / 5 m.
- Sewn termination with reinforced eye to protect the rope.
- Removable cover allows the inspection of termination stitches.
- Tubular protection webbing for the rope.
- Marked with a unique serial number and labelled to accommodate personal markings as well as a QR code to assist traceability.



PINCH

System for securing the karabiner at the end of a rope or tape lanyard. Made out of particularly strong material, it ensures effective protection against abrasion when in contact with the rock.



For Order
 Tel: +9821-55425307
 Website: www.HSEArya.com
 Email: info@HSEArya.com
 Telegram ID: @HSEArya_PPE
 Instagram ID: @HSEAryaPPE

HERO PRO

Fall arrest, rope access and work positioning harness.



Strong points:



- X shaped shoulder straps increase comfort and ensure excellent load distribution.
- The semi-rigid leg loops and waist belt assure optimal pressure distribution where the body is in contact with the harness.
- The padded shoulder straps with well-placed retainers minimise neck chafing.
- The waist belt, leg loops and shoulder straps are lined with a breathable foam, increasing comfort and reducing perspiration.



- The waist belt's two lateral attachment loops are articulated to minimise hindrance.
- The dorsal attachment point consists of a sewn rope ring to reduce weight and noise. Its red colour promotes efficient identification in emergencies.
- Two double action opening quick release buckles (one per leg loop) enable the harness to be easily fitted even with cumbersome footwear.
- An adjustable strap above the sternal attachment point allows correct positioning of the ventral ascender to encourage efficiency when ascending the rope.
- An O'LIGHT 3-matic connector allows the shoulder straps to be easily attached to the bottom of the harness.



- The rear of the waist belt contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



- Two fixed loops on the shoulder straps allow the attachment of an accessory like a radio or storage of scaffolding hooks.
- 2 Hook and loop straps at the top of the shoulder straps can be used to attach kit such as radios.
- 4 large, pre-shaped gear loops are positioned around the waist belt to easily accommodate all equipment.
- 6 mini gear loops can be used to attach 'AIR-LEASH' extendable tool holders or 3 'TOOL-BUCKET' tool pouches.

Size	Weight (g)	Waist belt (cm)	Leg loop (cm)	Torso circumference (cm)	Stature (cm)	Chest height (cm)
S	1918	70-90	50-65	70-100	155-175	55-70
M-L	1978	80-105	55-65	80-120	170-185	65-80
XL	2083	90-130	60-70	100-140	180-210	75-85



HERO SIT

Work positioning and rope access harness.

Strong points:



COMFORT

- The semi-rigid leg loops and waist belt assure optimal pressure distribution where the body is in contact with the harness.
- The waist belt and leg loops are lined with a breathable foam, increasing comfort and reducing perspiration.
- The waist belt's two lateral attachment loops are articulated to minimise hindrance.



ERGONOMY

- Two double action opening quick release buckles (one per leg loop) enable the harness to be easily fitted even with cumbersome footwear.



CE
EN 358
EN 813

Size	Weight (g)	Waist belt (cm)	Leg loop (cm)
S	1437	70-90	50-65
M-L	1478	80-105	55-65
XL	1568	90-130	60-70



TRACEABILITY

- The rear of the waist belt contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



ACCESSORIES

- 3 large, pre-shaped gear loops are positioned around the waist belt to easily accommodate all equipment.
- 4 mini gear loops can be used to attach 'AIR-LEASH' extendable tool holders or 2 'TOOL-BUCKET' tool pouches.



hero_sit_video



AIR-SIT

Stable and comfortable suspended work seat for rope access.

Strong points:

- Triangulation of the 2 lateral attachment points assists stability.
- Durable and breathable comfort padding.
- 2 plastic lateral gear loops are pre-shaped for ease of clipping.
- 4 mini gear loops are equally available on the sides to attach 'AIR-LEASH' extendable tool holders or 2 'TOOL-BUCKET' tool pouches.
- A ring under the seat can be used to attach a bag.



air_sit_video

SYNCRO

Particularly lightweight work positioning and fall arrest harness adapted specifically for industrial and energy related work environments.



Strong points:



- X shaped shoulder straps increase comfort and ensure excellent load distribution.
- The semi-rigid leg loops and waist belt assure optimal pressure distribution where the body is in contact with the harness.
- The padded shoulder straps with well-placed retainers minimise neck chafing.
- The waist belt, leg loops and shoulder straps are lined with a breathable foam, increasing comfort and reducing perspiration.



- Both the lateral and dorsal attachment points consist of sewn rope rings to reduce weight, noise and damage to delicate surfaces or coatings, particularly when ascending inside a wind turbine's tower.
- The rear attachment point consists of a sewn rope ring to reduce weight and noise. Its red colour promotes efficient identification in emergencies.
- Two double action opening quick release buckles (one per leg loop) enable the harness to be easily fitted even with cumbersome footwear.
- The sternal webbing strap with fall arrest attachment point can be easily opened and closed to assist harness fitting.



- The rear of the waist belt contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



- Two fixed loops on the shoulder straps allow the attachment of an accessory like a radio or storage of scaffolding hooks.
- 4 large, pre-shaped gear loops are positioned around the waist belt to easily accommodate all equipment.
- 6 mini gear loops can be used to attach 'AIR-LEASH' extendable tool holders or 3 'TOOL-BUCKET' tool pouches.

Size	Weight (g)	Waist belt (cm)	Leg loop (cm)	Torso circumference (cm)	Stature (cm)	Chest height (cm)
1 (S-M-L)	1700	65-105	45-65	80-120	160-180	55-75
2 (L-XL)	1750	100-130	60-75	90-140	175-210	65-85



BEAL COMMITMENT FOR THE ENVIRONMENT

1 HARNESS
PURCHASED



=



1 TREE
PLANTED



HERO PRO



SYNCRO

This new initiative reflects the BEAL commitment to preserving the environment for future generations of outdoor enthusiasts.

www.beal-environment.info



STYX

Lightweight and compact fall arrest harness with two attachment points: 1 sternal and 1 dorsal.

Strong points:

- Different coloured leg loops help distinguish them from the shoulder straps and so accelerate fitting.
- The dorsal section contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).
- 4 mini gear loops can be clipped directly or used to attach 'AIR-LEASH' extendable tool holders or 2 'TOOL-BUCKET'.



ERGONOMY



TRACEABILITY



ACCESSORIES



Size	Weight (g)	Leg loop (cm)	Chest height (cm)	Torso circumference (cm)
Univ	770	40-80	55-80	80-140



STYX JACKET

Lightweight and compact jacket style fall arrest harness with two attachment points: 1 sternal and 1 dorsal.

Strong points:

- A sleeveless jacket made from breathable materials facilitates easy fitting of the harness.
- The dorsal section contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



ERGONOMY



TRACEABILITY



Size	Weight (g)	Leg loop (cm)	Chest height (cm)	Torso circumference (cm)
Univ	1062	40-80	55-80	80-140





STYX RESCUE

Lightweight and compact fall arrest harness with two attachment points: 1 sternal and 1 dorsal.

Strong points:

- Different coloured leg loops help distinguish them from the shoulder straps and so accelerate fitting.
- The dorsal section contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



ERGONOMY



TRACEABILITY



Size	Weight (g)	Leg loop (cm)	Chest height (cm)	Torso circumference (cm)
Univ	770	40-80	55-80	80-140



STYX RESCUE JACKET

Lightweight and compact jacket style fall arrest harness with two attachment points: 1 sternal and 1 dorsal.

Strong points:

- A sleeveless jacket made from breathable materials facilitates easy fitting of the harness.
- The dorsal section contains an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



ERGONOMY



TRACEABILITY



Size	Weight (g)	Leg loop (cm)	Chest height (cm)	Torso circumference (cm)
Univ	1062	40-80	55-80	80-140



TRI-ANGEL

Evacuation triangle for vertical rescues.

Strong points:

- Straightforward positioning using 2 adjustable straps.
- The straps, which are a different colour to the rest of the triangle, assist with both the ease and speed of deployment of the TRI-ANGEL onto the casualty.
- The TRI-ANGEL adjusts in size to match the casualty using a webbing positioning scale with 3 settings.
- Marked with a unique serial number.
- Includes an area to allow personal marking such as your company's name in addition to a QR code which allows a true identifier to be generated (your name and unique ID).



TRACEABILITY



idN NUMBER



Weight: 747g



PERFORMANCES



MERCURY

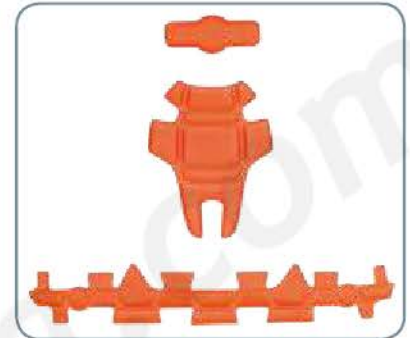
Hybrid helmet consisting of an ABS shell complimented by a polystyrene liner to promote efficient energy absorption during an impact.



Strong points:

- Micro-adjustable thanks to a precise adjustment dial.
- Outer shell design optimises comfort and protection.
- Excellent ventilation.
- 4 headlamp clips are integrated into the shell.
- Side slots for ear protectors.
- Chin strap withstands more than 50 daN to ensure the helmet remains secured during an impact.
- Magnetic chin strap buckle facilitates fitting and undoing even with gloves or a single hand.
- Internal comfort padding is removable and machine washable.

Weight (g)	Circumference mini (cm)	Circumference maxi (cm)
432	50	62



HYBRID



PERFORMANCES



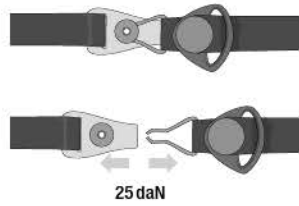
MERCURY-AIR PRO

Hybrid helmet consisting of an ABS shell complimented by a polystyrene liner to promote efficient energy absorption during an impact.



Strong points:

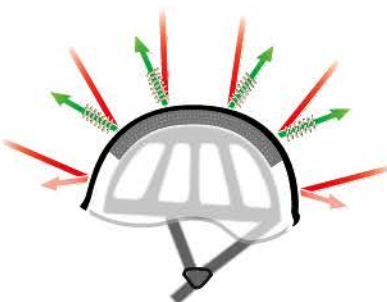
- Micro-adjustable thanks to a precise adjustment dial.
- Outer shell design optimises comfort and protection.
- Numerous vents with anti-intrusion mesh promote comfort.
- 4 headlamp clips are integrated into the shell.
- 4 headlamp clips are integrated into the shell.
- Side slots for ear protectors.
- A releasing system built into the webbing ensures the chin strap's strength is less than 25 daN.
- Magnetic chin strap buckle facilitates fitting and undoing even with gloves or a single hand.
- Internal comfort padding is removable and machine washable.



Weight (g)	Circumference min (cm)	Circumference max (cm)
459	50	62



HYBRID



PERFORMANCES


OVAL



SCREW


 CE
EN 362 B
EN 12275

O'LIGHT

Symmetrical aluminium oval shaped connector for use with equipment with swivelling side plates such as pulleys, rope clamps, mobile fall arrest devices, etc...

Strong points:

- Screw lock system.
- Individual serial number.
- Keylock system.


PERFORMANCES


OVAL



3 MATIC


 CE
EN 362 B
EN 12275

O'LIGHT 3-MATIC

Symmetrical aluminium oval shaped connector for use with equipment with swivelling side plates such as pulleys, rope clamps, mobile fall arrest devices, etc...

Strong points:

- Triple action 3-MATIC locking system.
- Individual serial number.
- Keylock system.


PERFORMANCES


ASYMMETRICAL



SCREW


 CE
EN 362 B
EN 12275

BE LINK

Asymmetrical aluminium connector for lanyards or for use with belay devices. The asymmetrical shape helps to guide the device towards the connector's apex.

Strong points:

- Screw lock system.
- Individual serial number.
- Keylock system.


PERFORMANCES


ASYMMETRICAL



3 MATIC


 CE
EN 362 B
EN 12275

BE LINK 3-MATIC

Asymmetrical aluminium connector for lanyards or for use with belay devices. The asymmetrical shape helps to guide the device towards the connector's apex.

Strong points:

- Triple action 3-MATIC locking system.
- Individual serial number.
- Keylock system.


PERFORMANCES


SYMMETRICAL L



SCREW


 CE
EN 362 B
EN 12275

BE LOCK

Asymmetrical aluminium screw gate connector with large capacity and opening to accommodate multiple items. Its generous loading surface and HMS shape facilitate its use with Clove and Italian hitches.

Strong points:

- Screw lock system.
- Individual serial number.
- Keylock system.


PERFORMANCES


SYMMETRICAL L



3 MATIC


 CE
EN 362 B
EN 12275

BE LOCK 3-MATIC

Symmetrical aluminium screw gate connector with large capacity and opening to accommodate multiple items. Its generous loading surface and HMS shape facilitate its use with Clove and Italian hitches.

Strong points:

- Triple action 3-MATIC locking system.
- Individual serial number.
- Keylock system.



Name	Major Axis Strength	Minor Axis Strength	Open Gate Strength	Weight
O'LIGHT	21 kN	8 kN	6 kN	74 g
O'LIGHT 3-MATIC	22 kN	8 kN	8 kN	82 g
BE LINK	26 kN	8 kN	7 kN	65 g
BE LINK 3-MATIC	26 kN	8 kN	7 kN	65 g
BE LOCK	26 kN	8 kN	8 kN	86 g
BE LOCK 3-MATIC	26 kN	8 kN	8 kN	100 g
O'SMITH	30 kN	16 kN	8 kN	179 g
O'SMITH 3-MATIC	30 kN	16 kN	8 kN	198 g
AIR-SMITH	52 kN	16 kN	18 kN	251 g
AIR-SMITH 3-MATIC	52 kN	16 kN	18 kN	251 g



PERFORMANCES

000
OVAL

SCREW

CE
EN 362 B, A, T
EN 12275 B

O'SMITH

Symmetrical oval shaped steel connector.

Strong points:

- Screw lock system.
- Individual serial number.
- Keylock system.



PERFORMANCES

000
OVAL

3 MATIC

CE
EN 362-2004 B, A, T
EN 12275 B

O'SMITH 3-MATIC

Symmetrical oval shaped steel connector.

Strong points:

- Triple action 3-MATIC locking system.
- Individual serial number.
- Keylock system.



PERFORMANCES

000
ASYMMETRICAL

SCREW

CE
EN 362 B, A, T
EN 12275 B

AIR-SMITH

High capacity asymmetrical steel connector with large opening to assist with connections to metal anchors. Its capacity allows it to accommodate multiple items.

Strong points:

- Screw lock system.
- Individual serial number.
- Keylock system.



PERFORMANCES

000
ASYMMETRICAL

3 MATIC

CE
EN 362 B, A, T
EN 12275 B

AIR-SMITH 3-MATIC

High capacity asymmetrical steel connector with large opening to assist with connections to metal anchors. Its capacity allows it to accommodate multiple items.

Strong points:

- Triple action 3-MATIC locking system.
- Individual serial number.
- Keylock system.



CONNECTOR



AIR-HOOK LARGE

Auto-locking aluminium connector with large opening. Ideal for connections to cables, bars and beams.

Strong points:

- Ergonomic lock- unlocking trigger.
- Individual serial number.

CE EN 362



AIR-HOOK XL

Auto-locking aluminium connector with very large opening. Ideal for connections to cables, bars and beams.

Strong points:

- Ergonomic lock- unlocking trigger.
- Individual serial number.

CE EN 362



Name	Major Axis Strength	Weight
AIR-HOOK LARGE	22 kN	475 g
AIR-HOOK XL	25 kN	920 g

Name	Working load limit	Breaking load (Kg)	Weight
STANDARD GALVA 8 mm	700	3500	77 g
STANDARD GALVA 10 mm	1100	5500	137 g
LONG OPENING GALVA 7 mm	500	2500	60 g
DELTA GALVA 8 mm	550	2750	88 g
DELTA GALVA 10 mm	990	4500	153 g
MAILLON SEMI CIRCULAR 10 mm		4500	153 g



PERFORMANCES



TRANSF'AIR 1

Large single pulley with swivelling side plate.

- Stainless steel axle and washer.
- The sheave is mounted onto a bronze collar to promote a good level of efficiency.
- Maximum $\varnothing \leq 16$ mm.
- EN12278: 1998.

Strong points:

- Unique number.
- High maximum working load.

Weight: 237 g



PERFORMANCES



TRANSF'AIR 2

Large double pulley with swivelling side plate well suited for use in pulley systems.

- Stainless steel axle and washer.
- The sheave is mounted onto a bronze collar to promote a good level of efficiency.
- Maximum $\varnothing \leq 16$ mm.
- EN12278: 1998.

Strong points:

- Unique number.
- Swivelling side plate.

Weight: 416 g



PERFORMANCES



TRANSF'AIR MINI

Compact and lightweight pulley with swivelling side plate.

- Stainless steel axle and washer.
- The sheave is mounted onto a bronze collar to promote a good level of efficiency.
- Maximum $\varnothing \leq 11$ mm.
- EN12278: 1998.

Strong points:

- Unique number.
- Swivelling side plate.

Weight: 120 g



PERFORMANCES



TRANSF'AIR FIXE

Compact and lightweight pulley with fixed side plates.

- Stainless steel axle and washer.
- The sheave is mounted onto a bronze collar to promote a good level of efficiency.
- Maximum $\varnothing \leq 12$ mm.
- EN12278: 2007.

Strong points:

- Unique number.
- Lightweight.

Weight: 90 g



PERFORMANCES



TRANSF'AIR FIXE B

Pulley with fixed side plates and ball bearings for optimal efficiency. Its compact and lightweight nature make it easy to handle. Allows a pulley system to be set up by adding a component such as an ascender.

- Maximum \varnothing max ≤ 13 mm.
- EN12278: 1998.

Strong points:

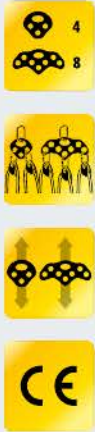
- Unique number.
- Ball bearings.

Weight: 120 g



Name	Compatible diameter	Maximum load	Weight
TRANSF'AIR 1	max 16 mm	MBS 30 kN	237 g
TRANSF'AIR 2	max 16 mm	MBS 30 kN	416 g
TRANSF'AIR MINI	max 11 mm	MBS 20 kN	120 g
TRANSF'AIR FIXE	max 12 mm	MBS 20 kN	90 g
TRANSF'AIR FIXE B	max 13 mm	MBS 22 kN	120 g

PERFORMANCES



AIR-PORT 4

Aluminium rigging plate which can accommodate 4 connectors.

Strong points:

- 20 mm holes allow connectors with locking barrels to be inverted easily.
- Individual serial number.

Weight: 92 g



PERFORMANCES



TWIST AIR B

Compact aluminium swivel with ball bearings to optimise performance even when loaded.

Strong points:

- Individual serial number.
- Ball Bearings.

Weight: 88 g



PERFORMANCES



AIR-PORT 8

Aluminium rigging plate which can accommodate 8 connectors.

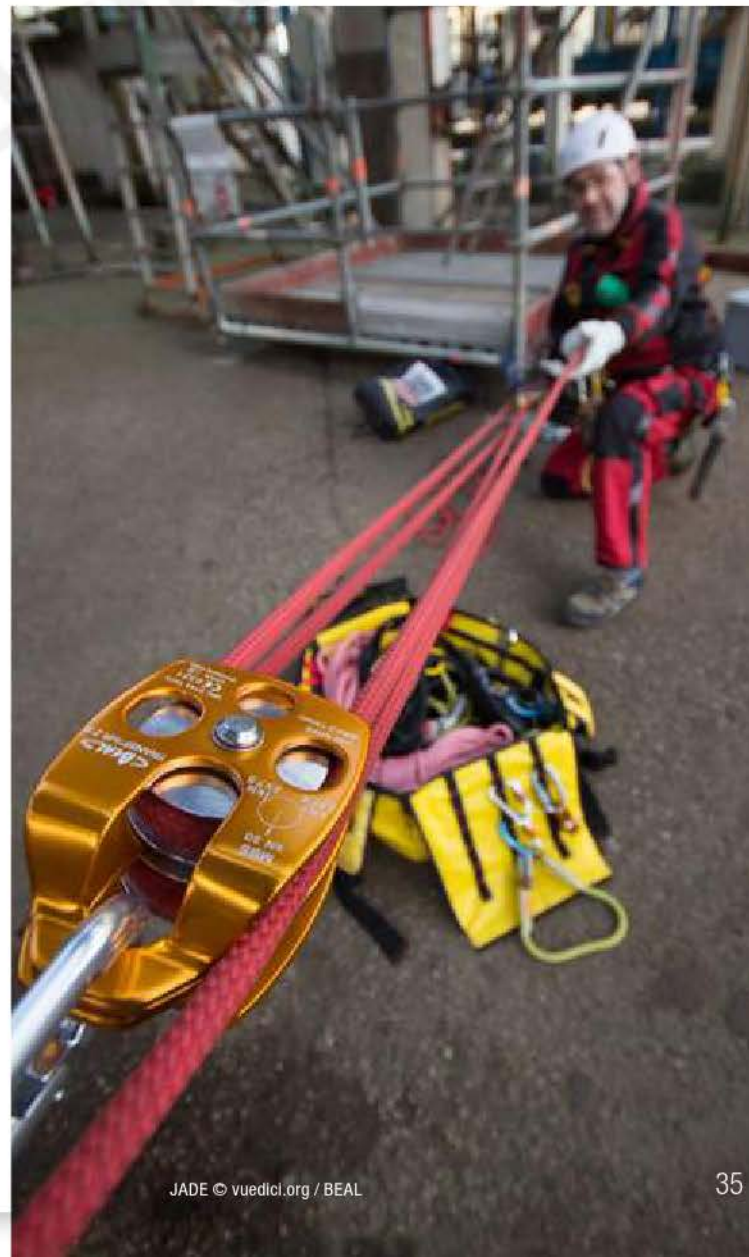
Strong points:

- 20 mm holes allow connectors with locking barrels to be inverted easily.
- Individual serial number.

Weight: 188 g



Name	Static strength	Hole diameter	Weight
AIR-PORT 4	MBS 45 kN WLL 9 kN	23.5 mm 20 mm	92 g
AIR-PORT 8	MBS 45 kN WLL 9 kN	23.5 mm 20 mm	188 g
TWIST AIR B	MBS 22 kN WLL 4 kN	18 mm	88 g



PERFORMANCES



MONITOR

Aluminium mobile fall arrest device with swivelling side plate.

Strong points:

- Mobile fall arrest device with camming action. Cam function reduces abrasion to the rope when activated.
- Meets the requirements of the following standards: EN 353-2, EN 12841-A 100Kg diameter 11-13 mm (EN1891).
- Swivelling side plate allows for ease of installation on the rope.
- A lateral brake converts the MONITOR into a rope clamp for work positioning.
- Easily locks as a result of a fall.
- Easily follows the operator both during ascent and descent.
- Marked with a unique serial number.
- The MONITOR can be complemented with a MOBILE-LANYARD and its 2 attachment points.



PERFORMANCES



MOBILE-LANYARD

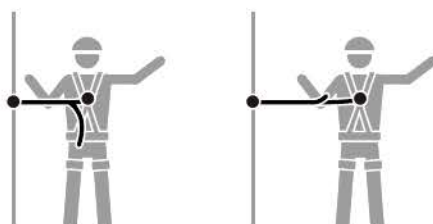
Lanyard with 2 attachment points. The MOBILE-LANYARD is certified to work with the MONITOR mobile fall arrest device, enabling it to be positioned away from the operator.

- Allows the operator to create a short or longer link dependant on their needs:
- Short link for work on a gentle slope or to limit the length of a fall (20 cm).
- Longer link to distance the rope from the operator and to gain freedom of movement (40 cm).

Strong points:

- Includes two PINCH's to ensure the correct orientation of the connector at its extremity.
- Marked with a unique serial number.

Strength: 2200 daN (kg)



PERFORMANCES



AIR-KIT 11 mm

Specific kit to create a mobile fall arrest system (EN 353-2 and EN12841-A 100Kg) especially adapted to vertical work or work on inclined surfaces.

Kit includes:

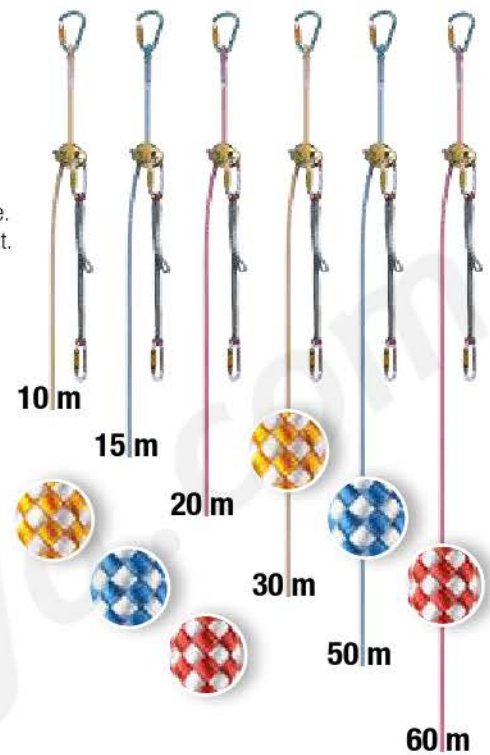
- A MONITOR mobile fall arrest device.
- A MOBILE-LANYARD with 2 positions: 20 cm and 40 cm.
- 2 O'LIGHT 3-MATIC connectors to attach the lanyard to both the MONITOR and the harness.
- Connectors: two O'LIGHT 3-MATIC and one BE LOCK 3-MATIC.
- A length of rope 10 m / 15 m / 20 m / 30 m / 50 m / 60 m with a 11 mm diameter with sewn termination protected by a reinforced eye.
- 1 BE-LOCK 3-MATIC connector to attach the rope to the anchor point.

Strong points:

- Removable cover allows the inspection of termination stitches
- Products marked with a unique serial number and equipped with a label to accommodate personal markings as well as a QR code to assist traceability.
- Each length is represented by a colour for quick and efficient identification of both its length and diameter:

- 10 m and 30 m - Orange.
- 15 m and 50 m - Blue.
- 20 m and 60 m - Red.

11 mm



mobiletag - web

#AIR-KIT_video



For Order
 Tel: +9821-55425307
 Website: www.HSEArya.com
 Email: info@HSEArya.com
 Telegram ID: @HSEArya_PPE
 Instagram ID: @HSEAryaPPE

PERFORMANCES



AIR-STOP

Auto-block descender with anti panic function for a single rope.

Strong points:

- Maximum working load of 130 kg with 9 mm rope, and up to 200 kg with ropes from 10 to 12 mm.
- Anti-panic function with 2 blocking positions.
- The maximum authorised speed of descent is 2 m/s.
- Useable on a wide spread of rope diameters from 9 to 12 mm (EN12841-C).
- Long control lever for a more progressive feel.
- Rope can be inserted into device without unclipping it.
- Unique serial number.



PERFORMANCES



AIR-FORCE 8

Classic, robust and easy to use belay device. It is compatible with a large range of rope diameters whether single, double or twin. The friction can easily be varied whatever the condition of the ropes (frozen, wet, different diameters...).



JADE © vuedicl.org / BEAL



LADDER

- 4mm GALVA WIRE SWAGED EYE 5 m
- 4mm GALVA WIRE SWAGED EYE 10 m

Metal ladder with aluminium rungs of 12.5 mm diameter and flexible 4 mm steel wire sides.

Strong points:

- Each end is fitted with swaged eyes and thimbles.
- They can be joined together with maillon rapides.
- Rung spacing is 25 cm.

Available in 5 and 10 metre lengths.



LADDER POUCH

Cover to store rolled-up flexible ladders.

Strong points:

- Cover for ladders up to 10 m in length.
- Made of very sturdy PVC.
- Luminous colour.

YS SPREADER

Y Extension to anchor a flexible metal ladder to a single point.

Strong points:

- 4 mm galvanised steel wire.
- Strength 1000 kg.



PRO WORK 35 CONTRACT



35 litre transport sac – simple and effective.

Strong points:

- HF welding.
- Reinforced base.
- Metal adjustment buckles.
- Identification window.
- Side transport handle.

Capacity: 35 L - Weight: 735 g



Strength
100 kg



PRO WORK 35



35 litre ergonomic transport sac including a waterproof external pocket.

Strong points:

- HF welding.
- Reinforced base.
- Ergonomic padded back.
- Comfortable carrying straps.
- Metal adjustment buckles.
- Identification window.
- Waterproof external pocket.
- Side carrying handle.

Capacity: 35 L - Weight: 1080 g



Strength
100 kg



PRO WORK 45



Large 45 litre capacity transport sac specially adapted to heavy load carrying. A comfortable belt complements the ergonomic shoulder straps and a padded back. Waterproof exterior pocket and large under-lid pocket to cater for smaller personal items as well as lifetime record sheets. A transparent window aids in identification.

Strong points:

- HF welding.
- Reinforced base.
- Comfortable belt and straps.
- Ergonomic back padding.
- Metal adjustment buckles.
- Identification window.
- Waterproof exterior pocket.
- Side carrying handle.

Capacity: 45 L - Weight: 1525 g



Strength
100 kg



PRO WORK 60



Very large 60 litre capacity transport sac with wide, stiff opening well adapted to rescue and large volume carrying requirements. A large waterproof transparent window allows you to see the sac contents. 2 very strong carrying handles help with handling heavy loads.

Strong points:

- Large rigid opening.
- High Frequency welding.
- Comfortable shoulder straps and belt.
- Ergonomic padded back.
- Metal adjustment buckles.
- Inventory window.

Capacity: 60 L - Weight: 1825 g



Strength
100 kg



GENIUS SIMPLE AND GENIUS TRIPLE

Bags for carrying small tools and fastenings.
The clic clac express closure stops the pocket contents getting lost.
A magnetic plate allows temporary storage on the outside of the pocket.
Available as a single pocket and an assembly of 3 with external tool carriers.

Strong points:

- Express closure.
- Easy to attach to the harness.
- Rigid opening.
- Magnetic plate.

Weight: Genius Simple 180g - Genius Triple 560g

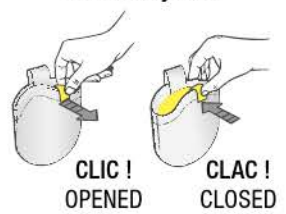
Genius Triple



Genius Simple



clic clac system



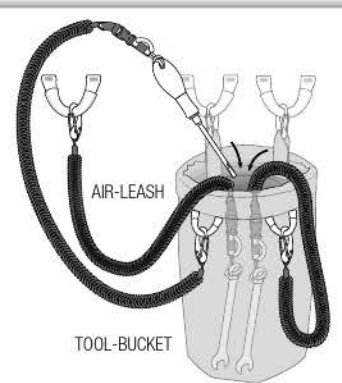
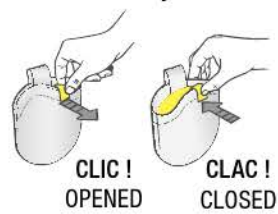
TOOL-BUCKET

Medium sized tool pouch.
● 2 small external gear loops can be used to connect BEAL AIR-LEASH extendable gear leashes.
● The clic clac express closure stops the pocket's contents getting lost.
● 2 external accessory clips attach the TOOL-BUCKET to either the HERO PRO, SYNCRO and STYX harnesses, or the AIR-SIT work seat.

Capacity: 3.4L - Weight: 180g



clic clac system



GENIUS BUCKET

20 litre bucket for tool carrying, drill, screwdriver or disc cutter... but also screws and fittings thanks to the 3 GENIUS clic clac pockets around the outside. The large stiffened opening gives ease of access to the contents.

Strong points:

- Access to tools.
- Clic clac pocket closure system.
- Rigid carrying handle.
- Watertight pocket.
- Reinforced base.

Capacity: 20L - Weight: 1085 g



AIR-LEASH

Extendable gear leash which allows tools to remain attached whilst in use.

Consists of 2 parts:

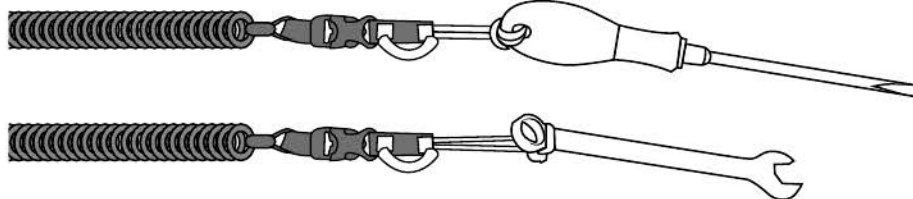
- An extendable spiral cord (up to 300%) that attaches using a mini karabiner to the TOOL-BUCKET, whether on HERO PRO, SYNCRO and STYX harnesses, or on the AIR-SIT seat.
- A removable tool attachment loop which connects to the spiral cord. The attachment loop is designed to connect to tools using a lark's head knot or clinching using the plastic cordlock. (suitable tools should be used).

A ring allows the tool to be clipped to a connector on the harness between uses.

The removable tool attachment loop is available separately. All tools that are equipped with the removable tool attachment loop can be attached to the spiral cord when needed.

Minimum length: 45 cm - Elongation under 500g: 150 cm

Maximum weight of the tool: 500 g



COMBI PRO 40

Bag for professionals who require quick and easy access to their kit.

Strong points:

- Benefits from BEAL's 'QUICK RELEASE' system to accelerate access to the bag's contents via two back panel sections.
- Once opened, the bag can be folded out to reveal its neatly organised contents.
- Multiple internal dividers and gear loops improve the kit's layout.
- A clear, external panel can be personalised to promote identification or used to list the bag's contents.
- Ergonomic shoulder straps and waist belt.
- Sternum strap with emergency whistle.
- Hauling loop at the top of the bag.
- 1 lateral carry handle.
- Reflective and fluorescent patches.
- PVC 1100 g/m².

Capacity: 40 L - Weight: 1960 g



COMBI PRO 80

Bag for professionals who require a large volume, yet maintaining quick and easy access to their kit.

Strong points:

- Benefits from BEAL's 'QUICK RELEASE' system to accelerate access to the bag's contents via two back panel sections.
- Once opened, the bag can be folded out to reveal its neatly organised contents.
- Multiple internal dividers and gear loops improve the kit's layout.
- The COMBI PRO 80's integrated rope bag contains a large ground sheet for immediate use of the rope without it twisting.
- A red buckle identifies the bottom end of the rope, whilst a green buckle identifies the top end.
- Lateral carry handle.
- Generously sized ground sheet 60 cm x 80 cm.
- Bag stores up to 60 m of rope.
- A clear, external panel can be personalised to promote identification or used to list the bag's contents.
- Ergonomic shoulder straps and waist belt.
- Sternum strap with emergency whistle.
- Hauling loop at the top of the bag.
- 1 lateral carry handle.
- Reflective and fluorescent patches.
- PVC 1100 g/m².

Capacity: 80 L - Weight: 2500 g



PRO RESCUE 40

Rescue bag ideal for rapid access operations.
Capable of taking 30 metres of rope and basic hardware.

Strong points:

- Lid with transparent internal pocket to list contents.
- A clear, external panel can be personalised to promote identification.
- Adjustable shoulder straps.
- Webbing loop under the bag to be able to guide it from the bottom via a 'tag line'.
- 1 removable, internal daisy chain gear loop.
- 1 lateral carry handle.
- Robust 650 g/m² PVC material.

Capacity: 40 L - Weight: 900 g



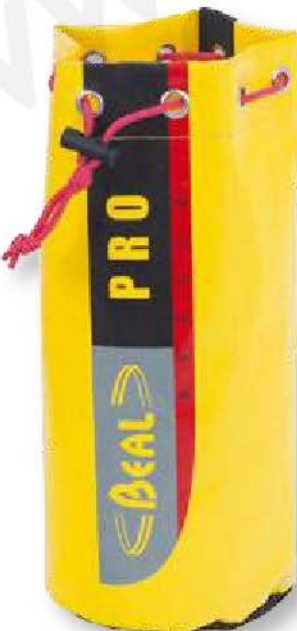
PRO RESCUE 60

Rescue bag ideal for rapid access operations.
Capable of taking 60 metres of rope and basic hardware.

Strong points:

- Lid with transparent internal pocket to list contents.
- A clear, external panel can be personalised to promote identification.
- Adjustable shoulder straps.
- Webbing loop under the bag to be able to guide it from the bottom via a 'Tag line'.
- 1 removable, internal daisy chain gear loop.
- 1 lateral carry handle.
- Robust 650 g/m² PVC material.

Capacity: 60 L - Weight: 1000 g



COMMANDE BAG

Small capacity bag to hold small volume cords and ropes.

Strong points:

- Made of strong PVC.
- Mesh base to promote drying.
- Fitted with an eyelet for fastening a rope.
- Strap to wear as a bandolier.
- Volume: 9 litres.

Capacity: 9 L - Weight: 200 g



CROCO

Universal clamp to secure different rope protectors onto a rope. The CROCO replaces the use of cord with a Prusik loop and other temporary attachment methods. Fitted with a cable and a small karabiner, it attaches easily to any rope protector on the market. Being independent of the rope protector, the CROCO can be reused when the rope protector has to be replaced.

Strong points:

- Adapts to all ropes from 9 to 12 mm.
- Attaches quickly to all rope protectors on the market.
- Reusable.

Length: 23 cm - Weight: 40 g



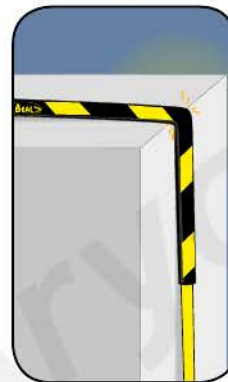
MAGNETIC PROTECTOR

Rope protector reinforced on both sides by a tape for better abrasion resistance. Installation facilitated by a magnetic closure.

Strong points:

- Increased abrasion resistance.
- Easy to close thanks to its magnets.
- May be independently positioned on metallic surfaces.

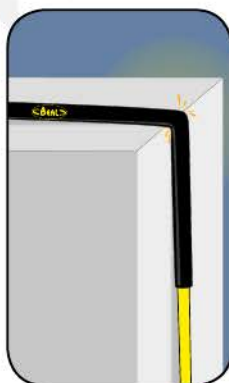
Length: 70 cm - Weight: 260 g



PROTECTOR

A rope can wear very rapidly over a sharp edge. To protect it, use the PROTECTOR, an ultra-solid rope protector made of two layers of coated material.

Length: 70 cm - Weight: 150 g



HOT-PROTECTOR

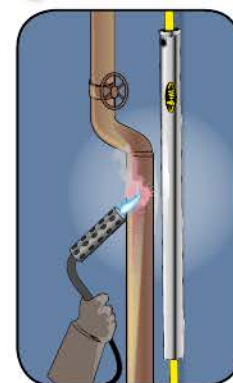
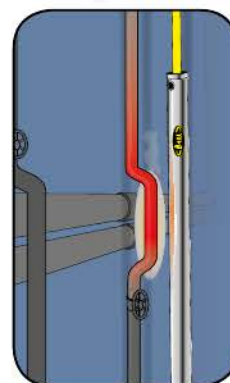


Made of glass fibre and aluminium, the HOT PROTECTOR is a patented rope protector resistant to heat, welding spatter, angle grinder, or a blowlamp flame - for a short time. Placement is facilitated by a magnetic closure.

Strong points:

- Increased resistance to heat.
- Easy to close thanks to its magnets.
- Can be independently positioned on hot metal surfaces.

Length: 70 cm - Weight: 180 g





ROPE ARMOUR

A patented woven metal sheath, serving to protect the rope or lanyard from edges or sharp tools. This supple armour is much more durable and effective than conventional rope protectors.

The ROPE ARMOUR has to be fixed around the rope, then positioned along it where protection is necessary: metal edges, roof corners, where there could be contact with angle grinders, drills...

Compact in store or when positioning on the rope, it lengthens after being put in place.

Strong points:

- Metallic sheath very resistant to cutting.
- Very light and supple.
- Concertinas to reduce in size.

Material: No. 65 galvanised steel

Length deployed: 70 cm - Length retracted: 16 cm - Weight: 250 g



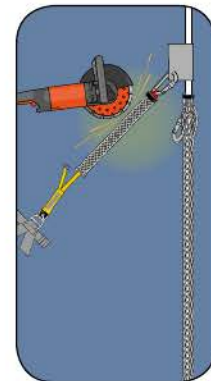
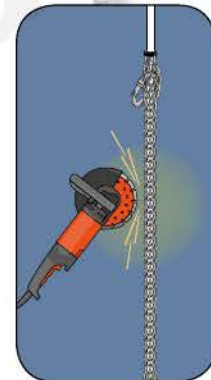
ROPE DEFENDER

Flexible sleeve made from coiled steel which serves to protect ropes from sharp edges. Thanks to its flexibility, it adapts to all angles. The spirals that are in contact with the edge squeeze together under the rope's movement therefore ensuring total protection. The steel sleeve is virtually indestructible. Its reinforced rubber protecting cover exists as a separate part and may be easily replaced.

Strong points:

- Virtually indestructible steel sleeve.
- Removable protective cover.

Length: 50 cm - Weight: 730 g



EDGE GUARD

Rope protector in stainless steel to protect a rope moving over a sharp edge.

Strong points:

- Modulable - can be linked together with maillon rapides.
- Secure with 2 cords (supplied).
- 2 side plates prevent the rope from leaving the rail.

Weight: 300 g



POLYAMIDE FLAT SLINGS

Flat slings 18 mm
CE EN 566 + EN 795B + CE EN 354
 Strength: 2200 daN (kg)

D 0 1 | B 0 0 F 0 1 0 5 1 4
 idN

Individual idN number



50 cm 100 cm	30 cm 80 cm 175 cm	150 cm	30 cm 40 cm 50 cm 60 cm 80 cm	100 cm 120 cm 150 cm 175 cm	40 cm 120 cm
-----------------	--------------------------	--------	---	--------------------------------------	-----------------

TYPE	WIDTH	STANDARD	CERTIFICATION	LENGTH (cm)	BREAKING LOAD	MATERIAL	CONDITIONING
Flat	18 mm	EN 795 B EN 566 EN 354	CE/UIAA	30-40-50-60-80 100-120-150-175	2200 daN(kg)	Polyamide	5

DYNEEMA FLAT SLINGS

Flat slings 10 mm
CE EN 566 + EN 795B + EN 354
 Strength: 2200 daN (kg)

B 3 0 | G 2 3 D 1 0 5 2 1 4
 idN

Individual idN number



60 cm	120 cm	180 cm	240 cm
-------	--------	--------	--------

TYPE	WIDTH	STANDARD	CERTIFICATION	LENGTH (cm)	BREAKING LOAD	MATERIAL	CONDITIONING
Flat	10 mm	EN 795 B EN 566 EN 354	CE/UIAA	60-120-180-240	2200 daN(kg)	Dyneema	4

ANCHOR STROP

Semi-temporary anchor made from 7 mm galvanised steel cable with plastic cover and 2 swaged terminations.

Strong points:

- Conforms to EN795 Type B.
- Available in 0.5 m and 1 m lengths.
- Allows making of semi-temporary anchors.
- Strength 2500 kg.

Weight: 50 cm = 260 g - 1 m = 434 g



ACCESSORY CORDS

Multi-use: BEAL accessory cords from 4 to 8 mm in diameter conform to the requirements of the UIAA and European Standards.



CE EN 564

DIAMETER	STANDARD	CERTIFICATION	WEIGHT PER METRE	BREAKING LOAD		MATERIAL
4 mm	EN 564	CE/UIAA	11 g	400 daN(kg)	530 daN(kg)	Polyamide
5 mm	EN 564	CE/UIAA	19,5 g	650 daN(kg)	930 daN(kg)	Polyamide
5,5 mm Dyneema	-	CE/UIAA	20 g	1 800 daN(kg)	2000 daN(kg)*	Sheath: Polyamide Core: Dyneema
6 mm	EN 564	CE/UIAA	23 g	810 daN(kg)	1200 daN(kg)	Polyamide
7 mm	EN 564	CE/UIAA	31 g	1170 daN(kg)	1680 daN(kg)	Polyamide
8 mm	EN 564	CE/UIAA	40 g	1530 daN(kg)	2200 daN(kg)	Polyamide

* With quadruple fisherman knot.

COMMANDE 7 mm - 30 m / 40 m / 60 m

7 mm cord with a sewn termination and karabiner on each end to guide rescues during the descent.

Strong points:

- Supplied with 2 karabiners secured by pinches.
- The COMMANDE has an individual number.
- Available in 30, 40 and 60 m lengths.



mobile:log=web
=commande 7_vibocd



WEBBING

Tubular for their flexibility or flat for their durability, webbings are specifically used in belay slings. Cut webbing must always be tied with a tape knot.



CE EN 565

TYPE	WIDTH	STANDARD	CERTIFICATION	WEIGHT PER METRE	BREAKING LOAD		MATERIAL	CONDITIONING
Tubular	16 mm	EN 565	CE/UIAA	31 g	1350 daN(kg)	1800 daN(kg)	Polyamide	100 m
	26 mm	EN 565	CE/UIAA	38 g	1500 daN(kg)	2000 daN(kg)	Polyamide	100 m
Flat	18 mm	EN 565	CE/UIAA	39 g	1600 daN(kg)	1800 daN(kg)	Polyamide	100 m
	26 mm	EN 565	CE/UIAA	35 g	1500 daN(kg)	1900 daN(kg)	Polyamide	100 m
	30 mm	EN 565	CE/UIAA	37 g	1600 daN(kg)	1950 daN(kg)	Polyamide	100 m
	45 mm	EN 565	CE/UIAA	55 g	2200 daN(kg)	2600 daN(kg)	Polyamide	100 m

RESCUE KIT 40

Allows the evacuation of a person by the outside of a building or from a pit or a ditch, up to a height limit of 30 m.

Equally useful in interventions at height or on horizontal progressions to protect against falls.

PRO RESCUE 40



COMBI PRO 40



RESCUE KIT 60 / 80

Allows the same uses as the RESCUE KIT but with a carrying limit of 60 m.

PRO RESCUE 60



COMBI PRO 80

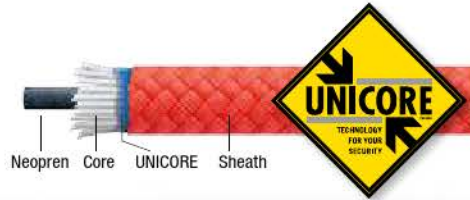


PERFORMANCES

idN	BEAL Color Code
	A
Type	Weight per metre
	2500 daN(kg)
Breaking load	% of the sheath
	EN1891

PRO WATER 11 mm UNICORE

Floating type A semi-static rope for work at height above water (off-shore wind farms, oil rigs). It can also be used for swift water rescues. A new patented technique allows PRO WATER 11 mm to become the first floating semi-static type A rope on the market. Thanks to limited shrinking in water, its suppleness is maintained and knots remain easy to tie. In case of an operative falling into water, boat based emergency services can easily see this orange rope which, because of its floatability, is unlikely to get tangled in propellers. PRO WATER rope benefits from all the advantages of UNICORE technology thus giving it a real increase in security.



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P. Bunichon - Europe Kayak / BSM 2013

P. Bunichon - Europe Kayak / BSM 2013

PMI REACH ROPE RETRIEVER

Grapnel attached to a floating cord to capture a lifeline already in the water, and to keep it captive.

Strong points:

- The grapnel functions like a karabiner to catch lifelines.
- 7 mm diameter floating cord, Dyneema core and polypropylene sheath.
- Compact bag is easy to throw.
- Length: 23 m - Strength 13kN.
- Weight: 950 g.



ASSURE CE

Mitts, entirely in leather, reinforced palms.

Strong points:

- Ultra supple.
- Natural grain leather.
- Loop for attachment to harness.
- Reinforced palm.
- Loop for karabiner clipping.
- Leaves the fingertips free.

EN 420 (2003)

General requirements for protective gloves:
safety, comfort and dexterity

EN 388 (2003)

Protective gloves against mechanical hazards



2122



ASSURE MAX CE

Gloves entirely in leather, with reinforced palm.

Strong points:

- Ultra supple.
- Natural grain leather.
- Loop for attachment to harness.
- Reinforced palm.
- Attachment loop for karabiner.

EN 420 (2003)

General requirements for protective gloves:
safety, comfort and dexterity

EN 388 (2003)

Protective gloves against mechanical hazards



2122



RAPPEL GLOVES CE

All-leather gloves, reinforced where the rope runs, specially adapted for descending the rope.

Strong points:

- Reinforced to limit wear from the sliding rope.
- Thick full grain leather.
- Loop to clip the gloves to the harness.

EN 420 (2003)

General requirements for protective gloves:
safety, comfort and dexterity

EN 388 (2003)

Protective gloves against mechanical hazards



2122



ROPE TECH GLOVES CE

Hybrid gloves, half-leather palms, half breathable stretch fabric on the back.

Strong points:

- Thin leather on the inside fingers for greater dexterity.
- The palm is reinforced precisely where the rope runs.
- The stretch textile on the back of the hand aids breathability and avoids sweating.
- Loop to clip the gloves to the harness.

EN 420 (2003)

General requirements for protective gloves:
safety, comfort and dexterity

EN 388 (2003)

Protective gloves against mechanical hazards



2122





ROPE MARKER

BEAL has developed a special ink for marking ropes, in the middle as well as at the ends. This ink hardly stiffens the rope, is water resistant, and stands up to abrasion well.

NB: it does not affect polyamide.

The container has a small roller at the tip for better inking.

With one container of ROPE MARKER you can make 30 marks of 5 cm.



ROPE BRUSH

A brush specifically created to clean ropes.

Adapts easily to different diameters.

Twist the brush onto the rope then run the rope through the brush while holding it firmly under water.



ROPE CLEANER

Non-aggressive detergent developed to clean ropes and harnesses easily.

Will not damage polyamide – water temperature < 30° C.



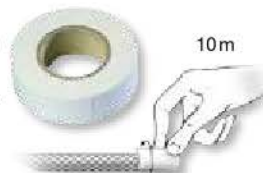
SOFTWARE OF MANAGEMENT AND CONTROL BEAL SOFTWARE V3PRO

Allows the management of PPE.

REFERENCE: www.beal-planet.com



ROPE BAND



10m

RFID READER



BEAL RFID CHIP FOR ROPE AND LANYARD



NFC CHIP FOR TIP



BEAL RFID CHIP FOR BEAL HARNESS



UNIVERSAL HARNESS CHIP



SYRINGE FOR INSERTING THE CHIP



MARKING TICKET KIT

The kit consists of non-rotting labels and heat-shrink sheath to allow you to replace old rope endings, but more importantly to let you establish your own rope traceability. The label is non-tear and waterproof, the heat-shrink cover is very abrasion resistant.



(x50) <80°



HEADLAMPS

For professionals to have effective lighting in all circumstances a simple long and straight light beam does not suffice, as in many situations a

broad and homogenous beam is equally required.



BEAL'S RANGE

To better respond to the needs of some of the most demanding users, from electricians to rope access technicians, BEAL's range uses multiple independent light sources on the majority of its models.

In contrast to using a single light source, this solution allows for a source to be dedicated to an intended use.

As a result some headlamp models have up to 3 independent light sources!

LIGHT SOURCES

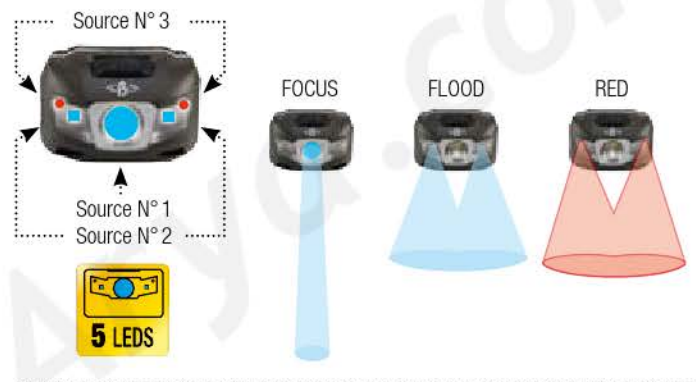


Source N° 1: A central LED, known as **'FOCUS'**, emits a far reaching and precise narrow beam.

Source N° 2: Lateral LEDs, known as **'FLOOD'**, emit light to allow comfortable and uniform peripheral vision without bright spots.

Source N° 3: Red LEDs, known as **'RED'**, allow for discreet lighting or efficient signalling in flashing mode.

Every light source is thus dedicated to a particular use: **'FOCUS'** to see far, **'FLOOD'** for immediate surroundings and **'RED'** for discretion in its constant mode or signalling in its flashing mode.



BEAL HEADLAMPS ARE SEPARATED INTO 2 RANGES



which indicate the key features of each one:

- **The L range** - light and compact head torches
- **The F.F range** - torches with a minimum of two light sources:

'FOCUS' and **'FLOOD'**

The number after the range indicates the maximum output in lumen:

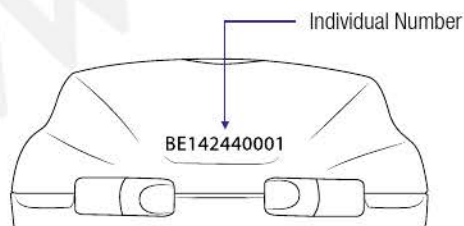
L28: Light + 28 lumens

F.F. 120: FOCUS & FLOOD + 120 lumens

L. RANGE



F.F. RANGE



HEADLAMPS

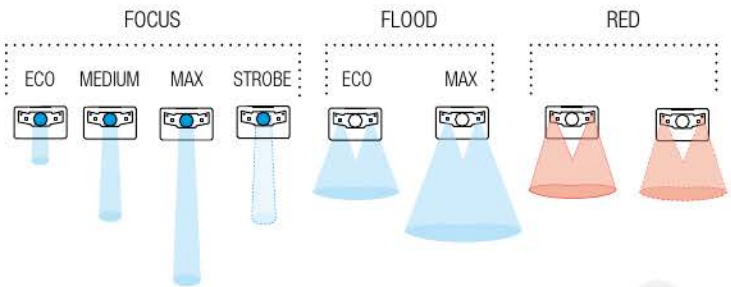


SETTINGS

Every light source has multiple settings; in addition to a powerful and an economic setting some models also feature medium and flashing settings.

- **Maximum mode:** the most powerful setting, providing an effective and intense output between 2 and 4 hours.
- **Medium mode:** the most favourable setting offering a compromise between light output and energy management.
- **Economic mode:** this setting, with an output between 5 and 6.5 lumens, generates minimal consumption for a very long burn time.
- **Flashing mode:** this setting works on the central light source or RED source and helps to draw attention when needed.

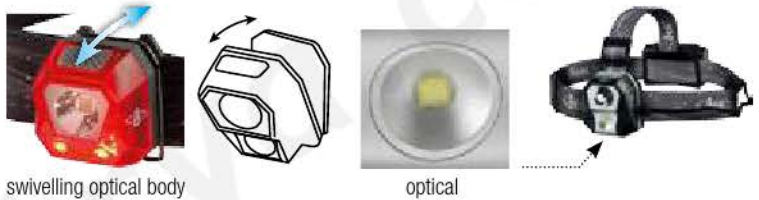
The combination of light sources and various modes allows for perfect adjustments to suit the needs of your night vision, which at the same time results in excellent energy management.



OPTICS

Whether it is due to the lens or reflector, every LED is constructed from the highest quality in optical materials in order to emit an even and homogenous light beam.

Swivelling optical body: all BEAL headlamps feature an articulated optical body which allows the light beam to be swivelled as required.



swivelling optical body

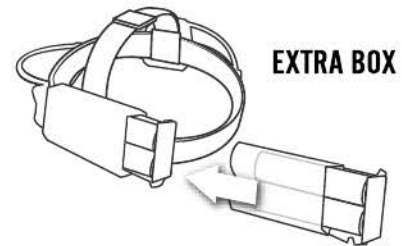
optical



'SPEED-SHIFT' BATTERY REPLACEMENT

On models that feature battery compartments at the rear of the head, batteries can easily be changed with one hand by using the spare waterproof container.

A clever ejection and locking system ensures waterproofness.



WATER RESISTANCE

All of our headlamps are water resistant to at least the IPX6 standard, guaranteeing water resistance against a 100l/min water jet from a 3m distance.




PERFORMANCES
24
LUMENS

22 m
72 h
3 LEDS

L 24

With a surprising output of 24 lumens for its small size, this is the lightest in the 'Light' series. This ultra-light and compact headlamp has all the advantages of a larger variant: 2 independent light sources and 5 operation modes!

- **Source N°1** – A powerful LED with an exterior reflector for a focused and far reaching beam.
- Maximum mode: for a focused and powerful light output up to 22 m of the 'FOCUS' variety.
- Economical mode for the maximum burn time up to 72 hours.
- Flashing mode allowing efficient signalling in case of an emergency.

- **Source N°2** – 2 red LEDs.
- Constant mode for discreet night vision (reading, mountain huts, ...).
- Flashing mode to draw attention.

Multiple fitting methods:

- Directly to the head using the 2 easily detachable elasticated cords.
- To a cap using the spring-loaded clamp.
- To the rear of another headtorch's elasticated head strap for effective rear signalling in the work yard, whether it is poorly lit or not lit at all.
- The two Lithium Ion batteries may be stored up to 10 years without deterioration.
- Weight 29 g including batteries.
- Individual number idN.

- **Exceptional water resistance: IPX6**



FOCUS		ECO	MAX
FLUOD			
MAX	24 LUMENS	23 h	22 m
ECO	6.5 LUMENS	72 h	13.5 m
	+		= 29 g
23 g		6 g	





PERFORMANCES

28
LUMENS

27 m

50 h

3 LEDS

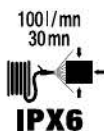
L 28

Light (70 g), compact but most of all very comfortable to use.

- 3 LEDs with built in reflector and lens.

- Maximum mode for a reach of 27 m also gives excellent peripheral vision of the 'FLOOD' variety.
- Medium mode for comfortable use and a good compromise between light output and energy consumption.
- Economical mode for a maximum burn time.
- Flashing mode to draw attention where needed.
- A weight of 70 g.
- The elastic head strap is easily removable and washable. The L24 can be attached to the rear.
- Individual number idN.

- Exceptional water resistance: IPX6



FOCUS			
FLOOD			
MAX	28 LUMENS	10 h	27 m
MEDIUM	10 LUMENS	28 h	16.5 m
ECO	5.5 LUMENS	50 h	11.5 m
+ = 70 g 45 g + 25 g			





PERFORMANCES

120 LUMENS

120 m

240 h

3 LEDS

FF 120

A headlamp with 2 surprisingly powerful light sources in relation to its size: 120 lumens in maximum mode with an 120 m throw yet weighing in at only 96 g.

The FF120 is an ideal headlamp for all trades requiring optimal lighting comfort. It offers the choice between long, focused lighting for moving quickly or a broad beam for close proximity use.

Source N° 1 Flood: A powerful central LED with additional reflector for a long and strong beam.

- Maximum mode: 120 lumens and a focused lighting distance up to 120 m.
- Medium mode: for an excellent compromise between light output and energy consumption.
- Economic mode for a maximum burn time.
- Flashing mode to draw attention where needed.

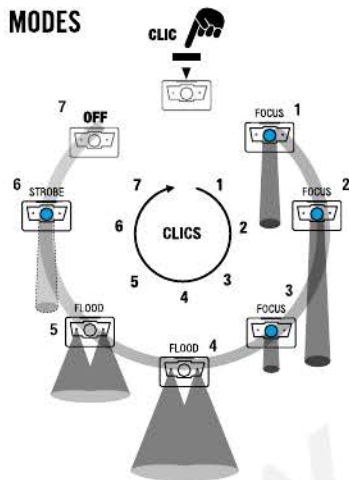
Source N° 2 Flood: 2 powerful lateral LEDs each backed by a reflector for peripheral lighting.

- Maximum mode: for highly comfortable peripheral vision even when moving quickly.
- Medium mode: for pleasant and homogenous close proximity vision, without areas of bright spots.
- The elastic head strap is easily removable and washable, and compatible with the L24 attached to the rear.
- Individual number idN.

- Water resistance: IPX6



MODES



		FOCUS		
		ECO	MEDIUM	MAX
MAX	120 LUMENS	50 h	120 m	
MEDIUM	47 LUMENS	78 h	80 m	
ECO	6 LUMENS	240 h	30 m	
		ECO	MAX	
		FLOOD		
MAX	14 LUMENS	110 h	6 m	
ECO	7 LUMENS	115 h	4.5 m	
+ = 96 g		60 g	36 g	



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PERFORMANCES
170 LUMENS
160 m
130 h
5 LEDS

FF 170



A 170 lumen headlamp armed with 3 independent light sources aimed at the most extreme activities, from the fastest to the longest.

Source N°1 Focus: A powerful LED with reflecting surround to provide a strong and long light beam.

- Maximum mode: a very precise beam with a lighting distance up to 160 metres.
- Medium mode: an excellent compromise between light level and energy consumption.
- Economic mode: for maximum burn time.
- Flashing mode to draw attention where needed.

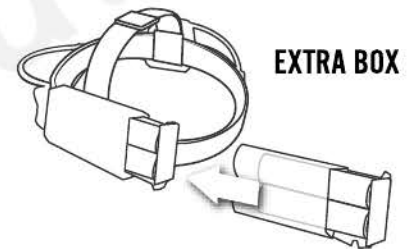
Source N°2 Flood: 2 powerful lateral LEDs each backed by a reflector for bright and homogenous peripheral lighting.

- Maximum mode with an output of 54 lumens for excellent peripheral vision.
- Medium mode for clean and homogenous close proximity lighting.

Source N°3: 2 red LEDs

- Constant mode for discreet night vision.
- Flashing mode to draw attention or when in need.
- Fitted to the head using an elasticated strap, which can be supplemented by an optional, removeable 20 mm top strap.
- Ease of battery changes thanks to the 'SPEED-SHIFT' concept.
- Individual number idN.

- Water resistance: IPX6



		FOCUS		
		ECO	MEDIUM	MAX
MAX	170 LUMENS	4.5 h	160 m	
MEDIUM	108 LUMENS	7.5 h	75 m	
ECO	6 LUMENS	130 h	15 m	
		FLOOD		
		ECO	MAX	
MAX	54 LUMENS	11 h	10.5 m	
ECO	28 LUMENS	26 h	7 m	
+ = 177 g <small>129 g 48 g</small>				





PERFORMANCES

190
LUMENS

150 m

130 h

2 LEDs

FF 190

An ultra-powerful 190 lumens headlamp possessing a second equally powerful independent light source armed with an ultra large reflector for incredible peripheral lighting!

The ultra large beam limits eye fatigue by providing a broad, constant light eliminating the darkness.

Source N° 1 Focus: a powerful central LED with reflector giving a very long lighting distance.

- Maximum mode: for a highly focused beam up to 150 metres.
- Medium mode: for an excellent compromise between light output and energy consumption.
- Economic mode: for maximum burn time.
- Flashing mode to efficiently draw attention when needed.

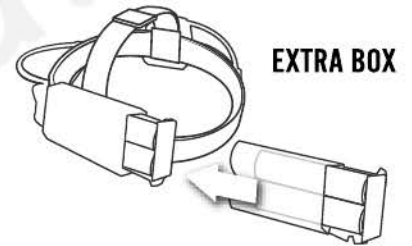
Source N° 2 Flood: A powerful LED with a very large reflector for ultra-wide and powerful lighting.

- Maximum mode with an output of 170 lumens with an ultra-wide beam up to 14.5 metres.
- Medium mode for clean and uniform close proximity lighting.
- Fitted to the head using an elasticated strap, which can be supplemented by an optional, removeable 20 mm top strap.
- Ease of battery changes thanks to the 'SPEED-SHIFT' concept.
- Individual number idN.

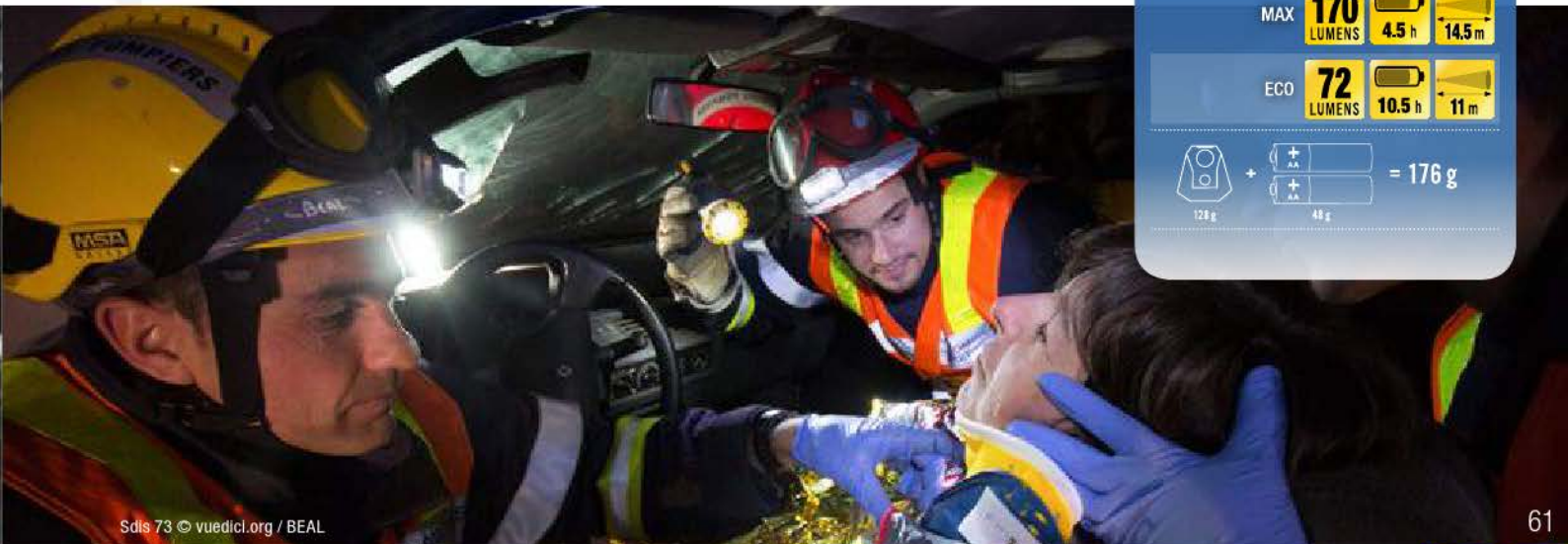
- **Exceptional water resistance: IPX7**
(30 minutes of submersion under 1m of water).



BATTERY GAUGE



		FOCUS		
		ECO	MEDIUM	MAX
MAX	190 LUMENS	4.5 h	150 m	
MEDIUM	87 LUMENS	8.5 h	70 m	
ECO	5 LUMENS	130 h	14 m	
		FLOOD		
		ECO	MAX	
MAX	170 LUMENS	4.5 h	14.5 m	
ECO	72 LUMENS	10.5 h	11 m	
128 g + 48 g = 176 g				

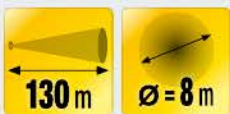




mobile tag - Web
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PERFORMANCES

170
LUMENS



70 h

1 LED

LT 170

An extremely compact lantern with 2 lighting functions – either torch or lantern.

Torch position: A powerful LED with additional reflector for a powerful and far reaching beam.

- Maximum mode: 170 lumens and a focused lighting distance of up to 130 m.
- Medium mode: For an excellent compromise between light output and energy consumption.
- Economic mode: For maximum burn time.
- Flashing mode: For efficient signalling when needed.

Lantern position: In this position a diffuser takes the place of the reflector and allows for 360° peripheral lighting.

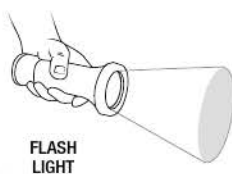
This position equally provides maximum, medium and economic modes.

- Maximum mode: A pleasant light output surrounds the lantern providing a comfortable atmosphere.
- Medium mode: For uniform close proximity lighting.
- Economic mode: For a maximum burn time.
- 3 retractable feet provide extra stability.
- A hanging loop helps to suspend the lantern.

- Water resistance: IPX4.



Sdis 73 © vuedici.org / BEAL



	FLASH LIGHT	LANTERN
MAX	170 LUMENS	5 h
	130 m	∅ = 8 m
MEDIUM	56 LUMENS	10 h
	60 m	∅ = 4 m
ECO	4 LUMENS	70 h
	10 m	∅ = 1 m

PERFORMANCES

190 LUMENS

150 m Ø = 10 m

230 h

1 LED

LT 190

A very stable lantern with 2 lighting functions – either torch or lantern. Wide and stable with an output of 190 lumens.

Torch position: A powerful LED backed by a reflector for a bright and far reaching beam up to 150m.

Lantern position: In this position a diffuser takes the place of the reflector and allows for powerful and homogenous 360° lighting.

In the two positions you can choose your lighting mode from most economical to most powerful by a holding down the switch.
- Two hooks helps to suspend the lantern.

- Water resistance: IPX4.



Garage Bogey © vuedici.org / BEAL

For Order
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	FLASH LIGHT	LANTERN
MAX	190 LUMENS	40 h
	150 m	Ø = 10 m
ECO	7 LUMENS	230 h
	10 m	Ø = 1.5 m

145 g	+	96 g	=	241 g
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