UK

PROTECTA®

INTERNATIONAL

Fall protection for the real world*

SYSTEMS by PROTECTA

* ANTICHUTES POUR UN MONDE REEL
* PROTEZIONE ANTICADUTA PER UN MONDO REALA
* PROTECCIÓN ANTICAÍDA PARA EL MUNDO REAL
* HÖHEN-UND ABSTURZSICHERUNGEN FÜR EINE SICHERE ARBEITSWELT

Contents

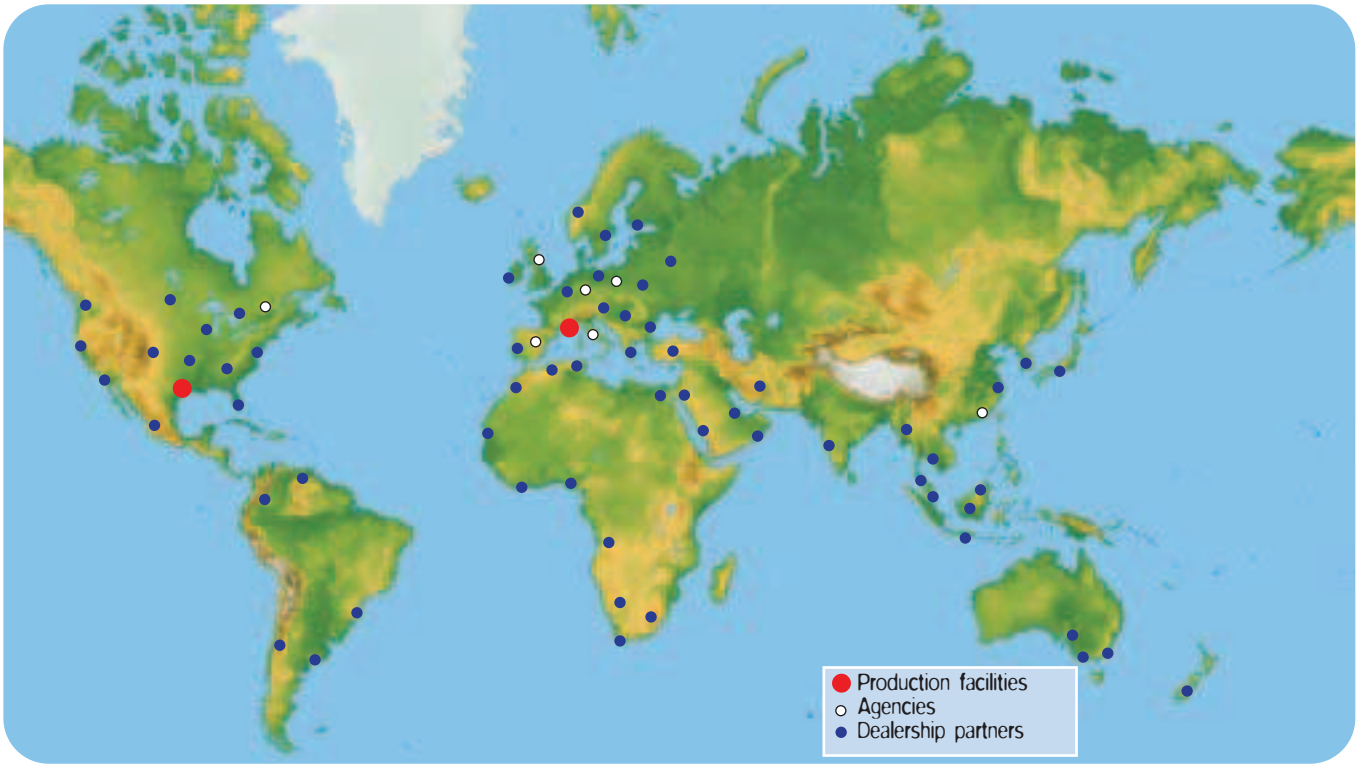
Presentation

50 YEARS OF EXPERIENCE SERVING YOUR SAFETY.

PROTECTA International is the world leader: the essential partner for your safety. Professionalism and technical know-how contribute to the success won by our different product ranges. Our horizontal and vertical lifelines are presented in this "SYSTEMS" catalogue. For equipment intended for rescue and rope work, please refer to our "ATLAS" catalogue. For equipment designed for fall arrest, please refer to our "PRO" catalogue. There is always a PROTECTA International solution to suit your environment.

OUR PRIORITY GOAL: QUALITY

Since its founding, PROTECTA International has always endeavoured to incorporate optimum quality research in the design and manufacturing of its products.
To ensure you get optimum reliability, PROTECTA International performs daily checks at every level, with the backing of its metrology and test laboratory.
Our quality assurance system, certified according to the ISO9001 reference system and the European directive 89/686/CE is constantly audited by BSI (British Standards Institution). This quality monitoring, combined with the issue of CE type examination certificates, enables PROTECTA international to apply CE markings to its entire PPE (Personal Protective Equipment) range.



PROTECTA INTERNATIONAL WORLDWIDE

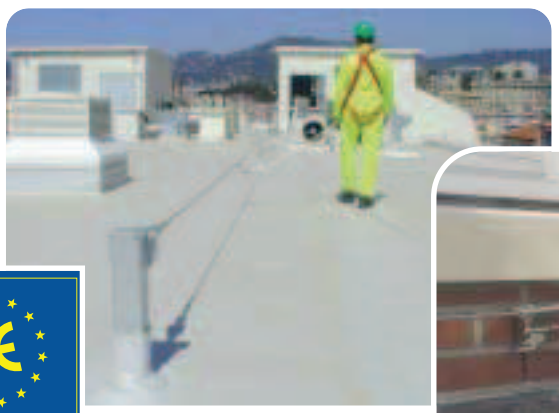
PROTECTA International generates more than 80% of its turnover on exports to more than 70 different countries. We have three production facilities, one at Nice - France, one at Toronto - Canada and the other in Houston - USA. We have sales offices in France, England, Germany, Spain, Poland, China, the USA, Australia and Canada.

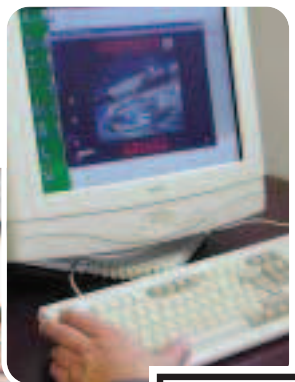
A NETWORK OF DEALERSHIP PARTNERS

To market its products all over the world, PROTECTA International draws on the backing of a network of more than 1000 partners who act as brand relays abroad. Constantly trained to use our products, our dealership partners, through their knowledge of local markets, help enrich our product supply which has already attracted many world class customers.

GLOBAL REFERENCES :

DEUTSCH TELEKOM, EDF, FRANCE TELECOM, E.N.E.L., TEPCO, GENERAL MOTORS, BOUYGUES, AIRBUS, BOEING, BUNDENPOST, EXXON, FORD, OTIS, SIEMENS, SFR, RENAULT, PEUGEOT, FIAT, GAZPROM, SCHLUMBERGER, ELF, VAG, US Department of Defense, CELCOM, MAKIS, DIGI, TM TOUCH, GLOBE TELEKOM, PETROMAS, SHELL, TOTAL, MTR, KCR...

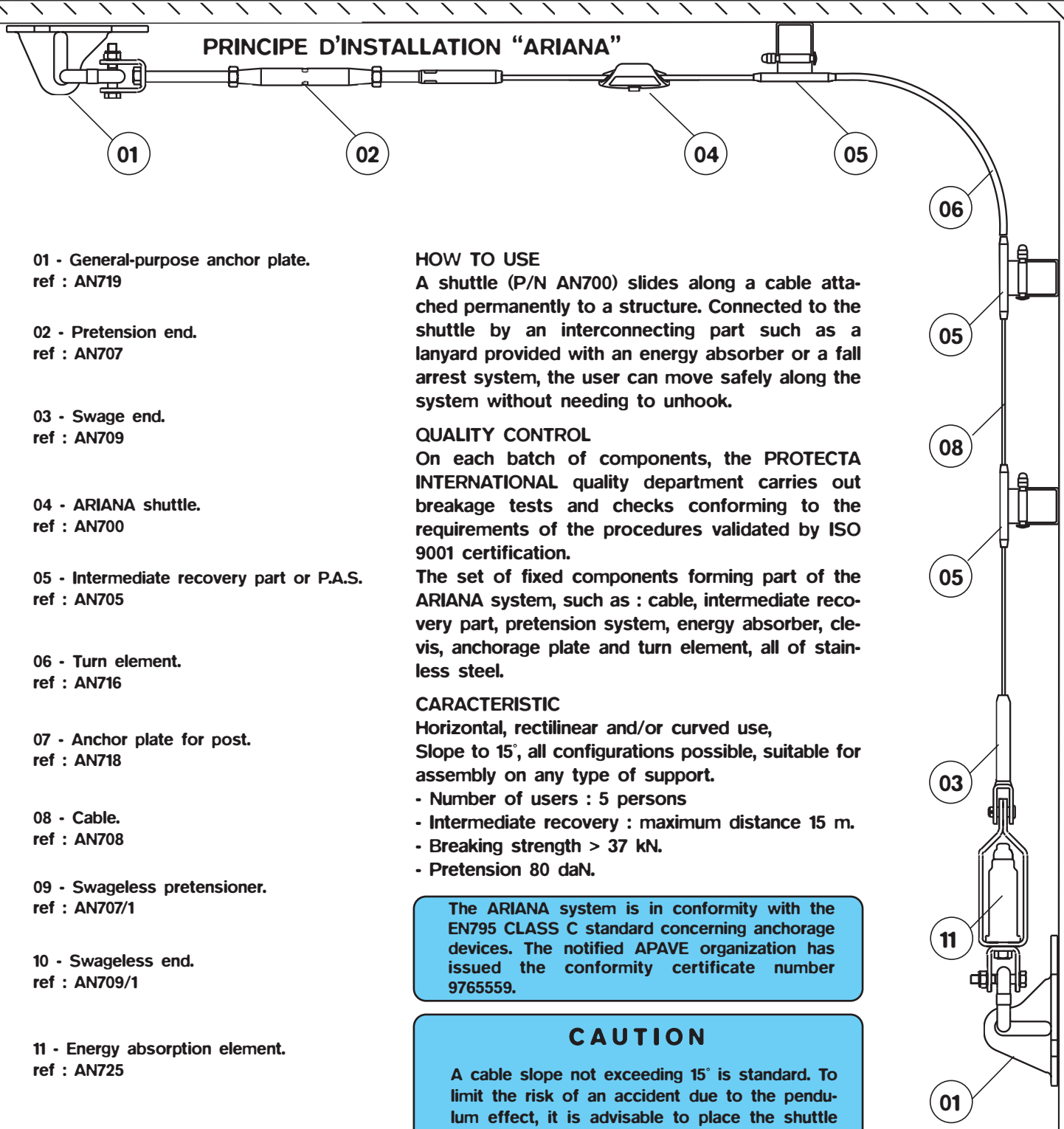




CE
QUALITY PRODUCTS

ISO 9001

ARIANA horizontal lifeline EN795C



01 - General-purpose anchor plate.
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HOW TO USE

A shuttle (P/N AN700) slides along a cable attached permanently to a structure. Connected to the shuttle by an interconnecting part such as a lanyard provided with an energy absorber or a fall arrest system, the user can move safely along the system without needing to unhook.

QUALITY CONTROL

On each batch of components, the PROTECTA INTERNATIONAL quality department carries out breakage tests and checks conforming to the requirements of the procedures validated by ISO 9001 certification.

The set of fixed components forming part of the ARIANA system, such as : cable, intermediate recovery part, pretension system, energy absorber, clevis, anchorage plate and turn element, all of stainless steel.

CARACTERISTIC

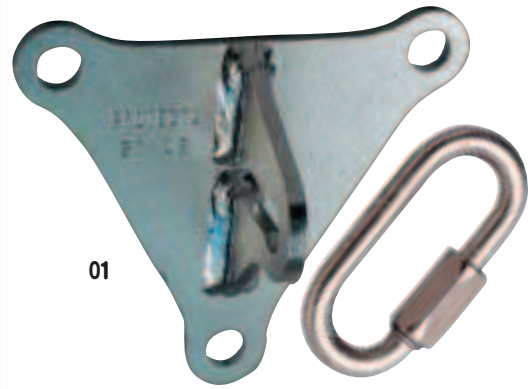
Horizontal, rectilinear and/or curved use,
Slope to 15°, all configurations possible, suitable for assembly on any type of support.

- Number of users : 5 persons
- Intermediate recovery : maximum distance 15 m.
- Breaking strength > 37 kN.
- Pretension 80 daN.

The ARIANA system is in conformity with the EN795 CLASS C standard concerning anchorage devices. The notified APAVE organization has issued the conformity certificate number 9765559.

CAUTION

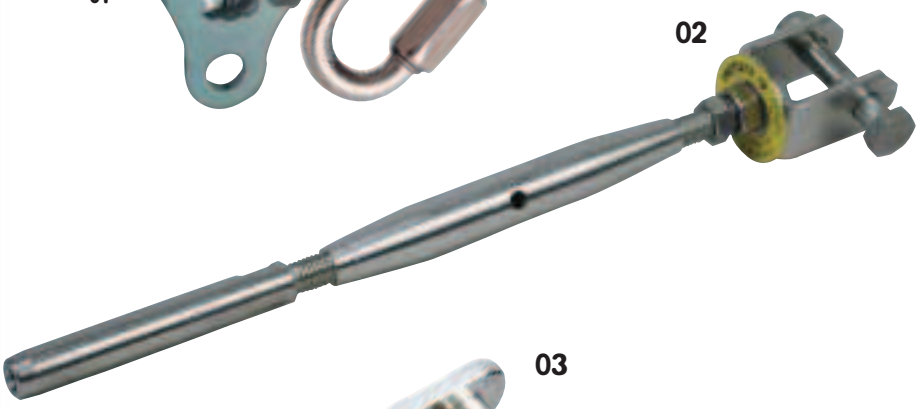
A cable slope not exceeding 15° is standard. To limit the risk of an accident due to the pendulum effect, it is advisable to place the shuttle vertically above the working area.



01

01 - General-purpose anchor plate.
ref : AN719

- Stainless steel electrolytic polishing.
- Use for terminal anchorage with three M12 attachments.
- Breaking strength > 37 kN.
- Net weight : 730 g.
- Must be used together with a quick link Ø 8 mm.



02

02 - Swage pretension.
ref : AN707

- Stainless steel electrolytic polishing.
- Operating pretension 80 daN.
- Crimping : length 80 mm
- Cable diameter 8 mm.
- Cable tension adjustment must be stopped at the very beginning of rotation of the indicator washer.
- Breaking strength > 37 kN.

03

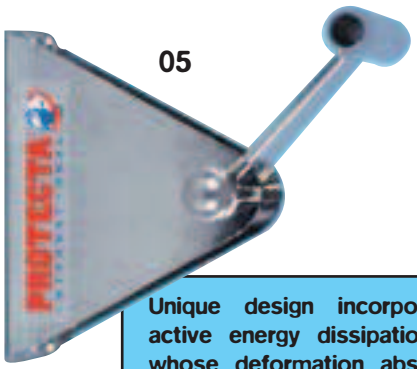
03 - Swage end.
ref : AN709

- Polished stainless steel electrolytic type.
- Crimping : length 80 mm.
- Cable diameter 8 mm.
- Breaking strength > 37 kN.
- Net weight : 230 g.

04

04 - Shuttle.
ref : AN700

- Stainless steel.
- Electrolytic polishing.
- AJ501 steel carabiner.
- Use on PROTECTA 8 mm diameter stainless steel cable. (according to spec.)
- Breaking strength > 12 kN.
- Net weight : 390 g.

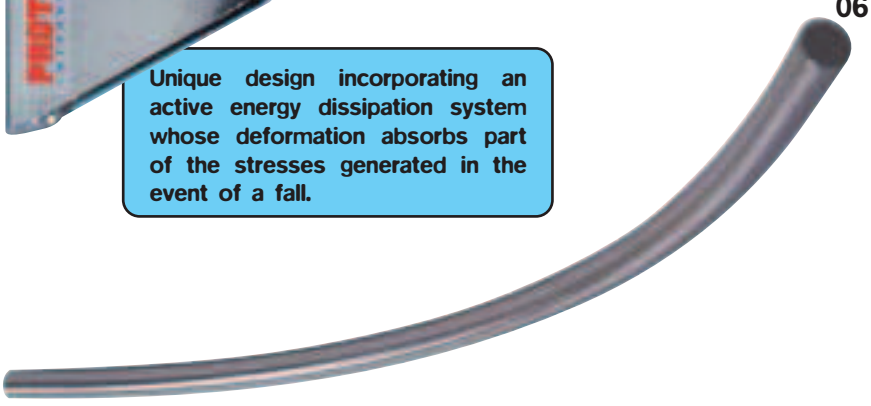


05

05 - Intermediate recovery part or P.A.S.
ref : AN705

- Stainless steel.
- A2 stainless steel hardware.
- Attachment to vertical or horizontal support.
- Breaking strength > 12 kN.
- Net weight : 460 g.

Unique design incorporating an active energy dissipation system whose deformation absorbs part of the stresses generated in the event of a fall.

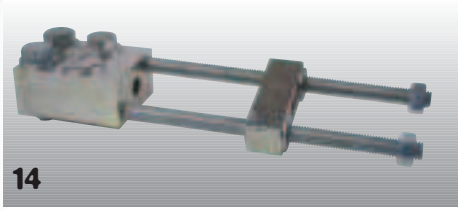


06

06 - Turn element.
ref : AN716

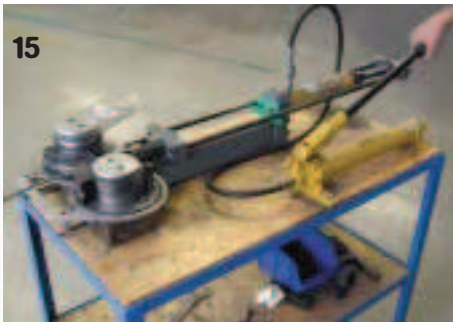
- Stainless steel.
- Diameter 13.5 mm.
- Use on 90° inside/outside turn elements.
- Net weight : 300 g.

The descriptive statements and pictures of this products are only as per indication. PROTECTA International reserve itself the right to modify the products without prior notice.



14 - Swaging tool for AN710.
ref : AN751/7

- Operates with crimping rollers AN751/8 for connectors AN710.

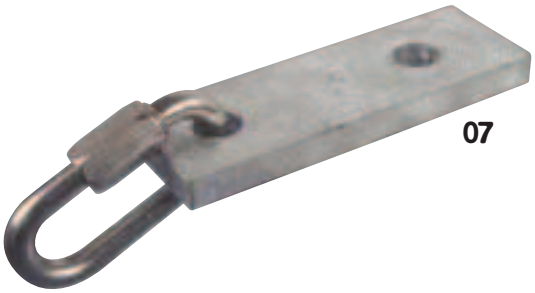


15 - Swager.
ref : AN751

- Use : end clevis crimping and pretension reference.
- 8 mm diameter steel cable.
- Hydraulic hand pump.
- Single acting cylinder.
- Pressure 700 bar.
- Force approximately 45 kg.
- Oil capacity 400 cc.
- Size : - L 430 mm - W 280 mm - H 220 mm
- Net weight : 18 kg.

16 - Bender.
ref : AN750

- Bichromate zinc-plated steel.
- Use : Bending of guide part for intermediate part (P/N AN 705) for ceiling attachment.
- Net weight : 2.8 kg



07

07 - Anchor plate for post.
ref : AN718

- Galvanized steel.
- 8 mm stainless steel link.
- Size : 120 x 40 x 10.
- center distance : 20 x 30 20 x 70.
- Breaking strength > 37 kN.
- Net weight : 438 g.

08

08 - Protecta cable.
ref : AN708

- Stainless steel.
- Cable diameter 8 mm.
- Operating pretension 80 daN.
- Structure 7x19 preformed straight cross-laid wires.
- Metal core.
- Breaking strength > 37 kN.
- Net weight : 246 g./meter.

09

09 - Swageless pretensioner.
ref : AN707/1

Identical to AN707, equipped with olive type manual crimping end.
- Stainless steel.
- Breaking strength > 37 kN.

10

10 - Swageless end clevis.
ref : AN709/1

- Stainless steel.
- Breaking strength > 37 kN.
- Net weight : 420 g.

11

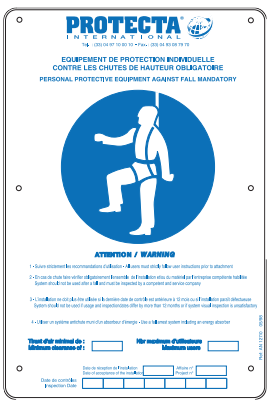
11 - Energy absorption element.
ref : AN725

- Stainless steel.
- Heat shrink sheathing.
- Synthetic elastomer.
- Maximum travel 70 mm.
- Tripping threshold 2.4 kN.
- Horizontal use.
- Single-purpose absorbing element.
- Breaking strength > 37 kN.
- Net weight : 1.1 kg.

12 - Connecting part.
ref : AN710

- Stainless steel.
- Use : connection of two of 8 mm diameter cables 7x19 stainless steel.
- Installation tool: AN751/7 and AN751/8.
- Breaking strength > 37 kN.
- Net weight : 0.140 kg.

To swage junction part AN710, you must use swaging rollers AN751/8.



13

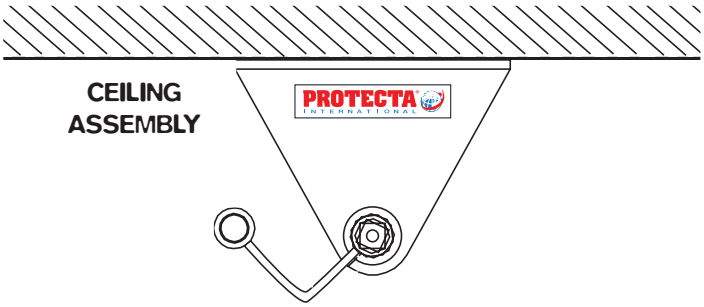
13 - Safety sign.
ref : AN126

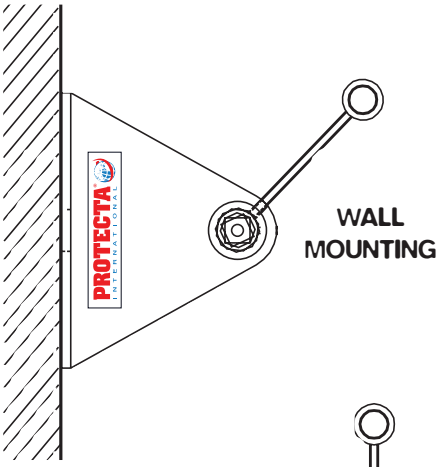
- Supplied with attaching system and line plumb weight.

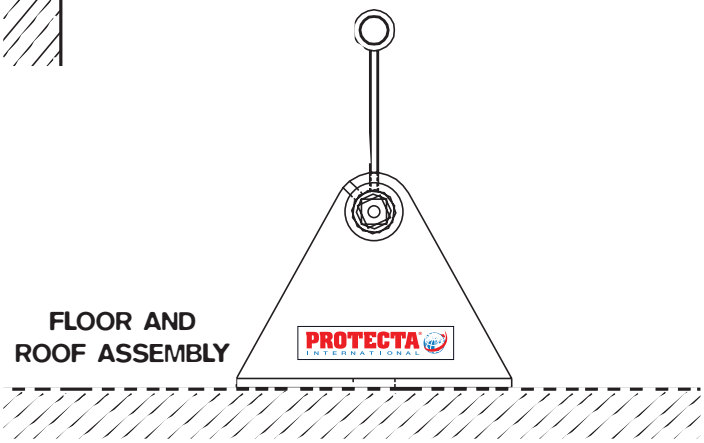
ARIANA horizontal lifeline EN795C

The installation will be carried out to allow movement over the entire working zone. Various types of installations are possible: Wall, ceiling, post, roof ridge, terrace, framework etc.
Various intermediate recovery parts and end plates can be supplied, each tailored to a type of assembly (metallic or concrete structure).
A material strength investigation will be required, carried out by a competent design office in order to determine the attaching mode for the end plates and intermediate anchorages. To establish their definition, it is important to supply all possible technical information concerning the receiving structure, including drawings of the installation site.

VARIOUS INSTALLATION TYPES



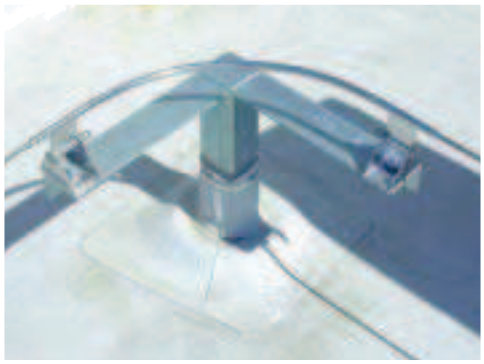




INSTALLATION AGAINST CEILING

WALL INSTALLATION

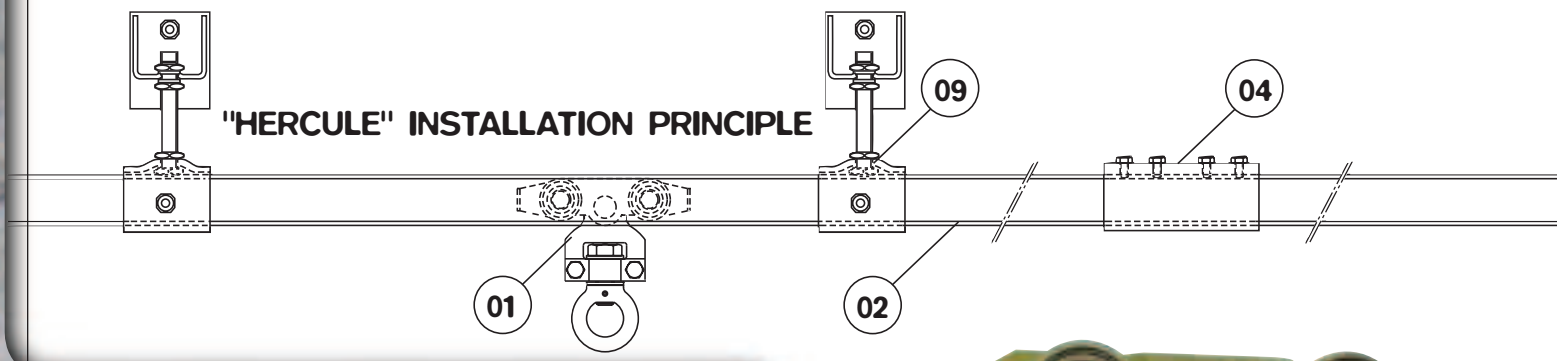
INSTALLATION ON ROOF RIDGE

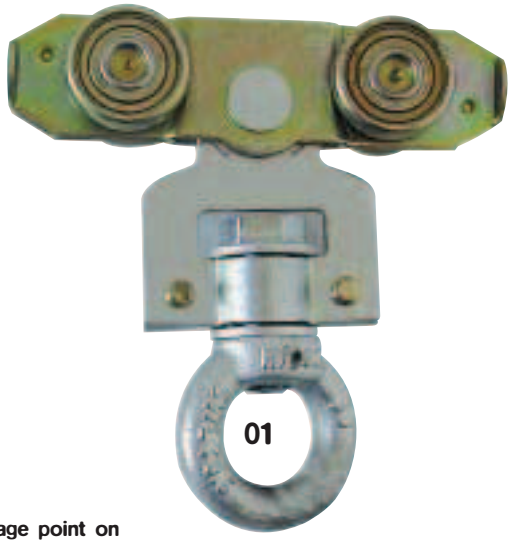


INSTALLATION ON POST

HERCULE horizontal lifeline EN795D

The HERCULE lifeline is an anchorage device equipped with a rigid horizontal anchorage line. A mobile carriage (P/N AN200) slides along a rail attached permanently to a structure.
This device has the particularity of being suitable for use as a fall arrest system or a suspension system.
When used with a working saddle, it is necessary to insert two carriages, the first used as saddle anchorage and the second for the fall arrest system securing the operator.
The installation of this anchorage device must be absolutely horizontal and permit the movement of a user over the entire working zone. This device, wall or ceiling mounted, must always be placed above the user. It is suitable for high-rise installations and should be used with the fall arrest systems such as COBRA, VIPER, JRG, AUTOBLOC or a lanyard with an energy absorber.





01 - Carriage.
ref : AN200

- Mobile anchorage point on rectilinear rail P/N AN201 or curved rail AN202.
- Roller support of bichromate zinc-plated steel.
- Anchorage point clamp of galvanized steel.
- Anchorage of zinc plated steel.
- Maximum load 136 kg.
- Strength of overall system > 10 kN.
- Net weight : 860 g.

02 – Straight rail
ref : AN201

- Length: 3 m.
- All types of rectilinear installation.
- Interval between supports: 1m maximum.
- E315D steel.
- Anti-corrosion protection (galvanized).
- Strength of overall system > 10 kN.
- Net weight: 11 kg.

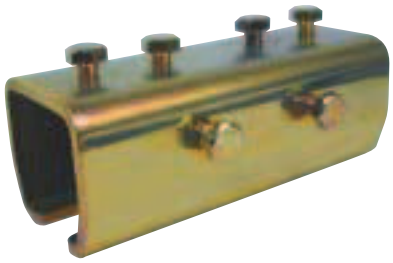
The HERCULE system is in conformity with EN795 class D standard concerning anchorage devices. The notified APAVE organization has issued the conformity certificate number 97.6.0228.

03

03 - Curved rail.
ref : AN202

- Length : 1.30 m.
- curve radius 648.5 mm.
- E315D steel.
- Anti-corrosion protection. (galvanized).
- Strength of overall system > 10 kN.
- Net weight : 9.1 kg.

04



04 - Connection sleeve for rails type AN201/AN202.
ref : AN203

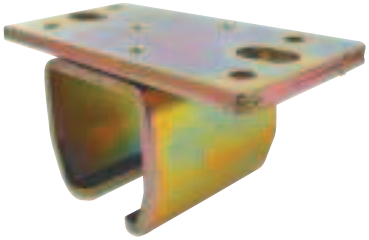
- Supplied with locking hardware.
- DD13 yellow bichromate steel as per EN 10111.
- Strength of overall system > 10 kN.
- Net weight : 950 g.

05

05 - Support for rails to be welded AN201/AN202.
ref : AN204

- Supplied with locking hardware.
- Attachment by welding.
- Wall anchorage.
- DD13 untreated steel as per EN 10111.
- Strength of overall system > 10 kN.
- Net weight : 395 g.

06



06 - Support for ceiling mounted rails AN201/AN202.
ref : AN205

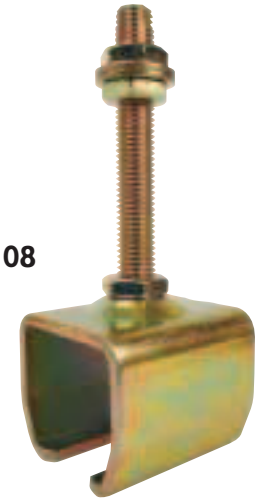
- Supplied with locking hardware.
- Attachment by bolting.
- Ceiling anchorage.
- DD13 untreated steel as per EN 10111.
- Strength of overall system > 10 kN.
- Net weight : 752 g.

07

07 - Support for wall mounted rails AN201/AN202.
ref : AN206

- Supplied with locking hardware.
- Attachment by bolting.
- Wall anchorage.
- DD13 yellow bichromate zinc-plated steel as per EN 10111.
- Strength of overall system > 10 kN.
- Net weight : 555 g.

08



08 - Support for ceiling mounted rails AN201/AN202.
ref : AN207

- Supplied with locking hardware.
- Attachment by bolting.
- Ceiling anchorage.
- DD13 yellow bichromate zinc-plated steel as per EN 10111.
- Strength of overall system > 10 kN.
- Net weight : 580 g.

09

08

09 - 09 - Support for rail with wall offset AN201/AN202.
ref : AN208

- Supplied with locking hardware.
- Attachment by bolting.
- Wall anchorage with AN207.
- DD13 yellow bichromate zinc-plated steel as per EN 10111.
- Strength of overall system > 10 kN.
- Net weight : 710 g.

10

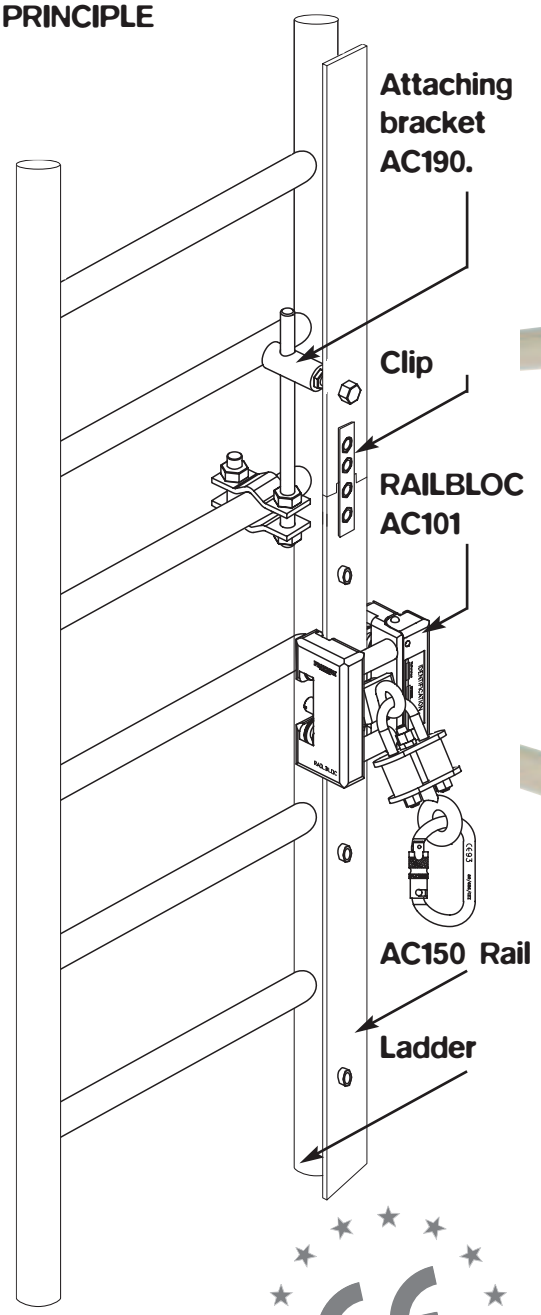
10 - End stop.
ref : AN200/ACC

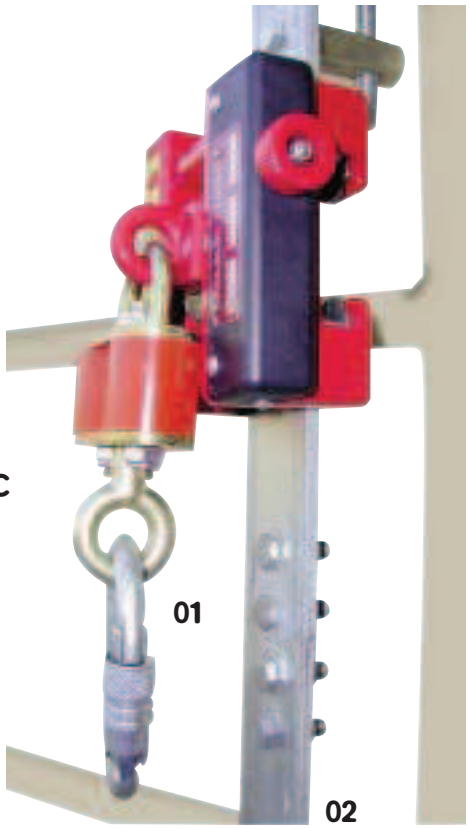
- Zinc-plated or stainless steel bolt and nut.
- Use at rail end AN201/AN202.
- Net weight : 70 g.

RAILBLOC vertical lifeline EN353-1

The RAILBLOC consists of a vertical fall arrest system sliding along a special vertical rail. Installed permanently and parallel to the movement track, it protects from falls from a height during climbing to and descent from the working position.

RAILBLOC INSTALLATION PRINCIPLE





01 - RAILBLOC fall arrester.
ref : AC101

- Double safety opening system.
- Vertical use.
- Energy dissipating element.
- Weight : 1.8 kg.
- Reversible operation.
- Conformity : CE EN353-1.

02 - Steel rail 50 x 6 mm.
ref : AC150/G

- Length 1.50 m.
- Anti-corrosion treatment by galvanizing.
- Mortise and tenon end.
- Supplied with connecting clip.
- Available in stainless steel version P/N : AC150/I.

03 - Bar attaching bracket for ladder, ensuring anchorage of rail to the structure.
ref : AC190

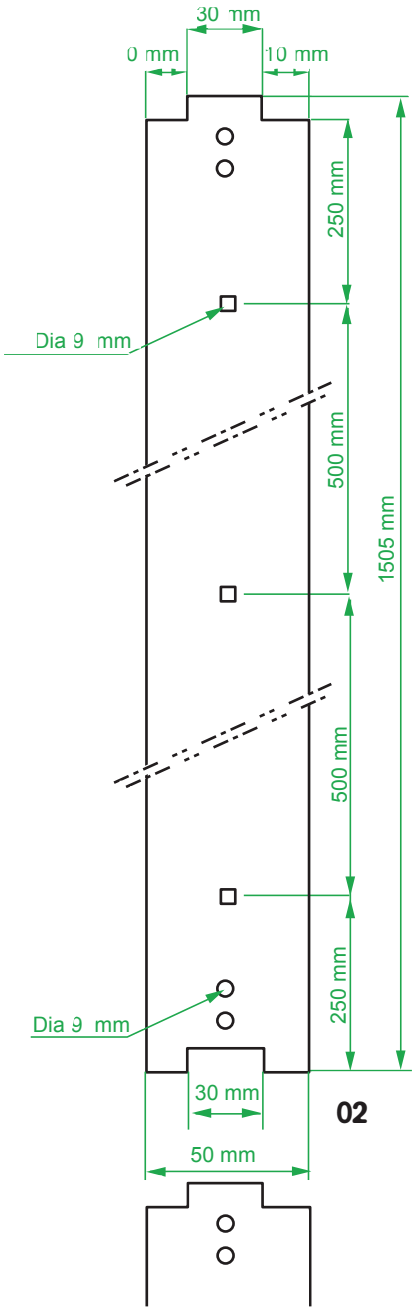
Other types of attachment are possible, after study of the system.

The attaching parts must be designed according to the structure to which they are attached. A competent design office must define them.
To establish their definition, it is important to supply all possible technical information concerning the receiving structure, including drawings.
(profile, bar section, center distance etc.).

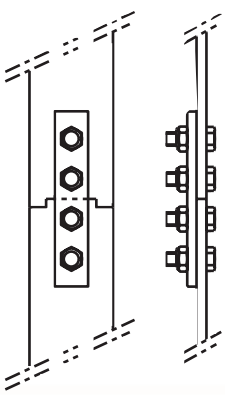
CAUTION
The RAILBLOC mobile fall arrester must always be used within the supplied carabiner and must be connected directly to the fall arrest harness. Depending on the choice of positioning, the harness must have a sternal or lateral "D" attaching system.
The use of another type of harness would make attachment uncomfortable or impossible.

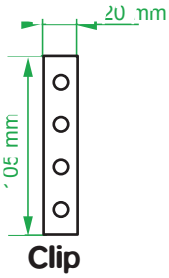
EXAMPLE OF OTHER TYPES OF ATTACHMENT

The rail can be installed indifferently on the left, at the center or to the right of the ladder. The choice of positioning must be guided by: the width of the ladder, the profile of the uprights and the rungs, the clearance at the top and bottom.



02



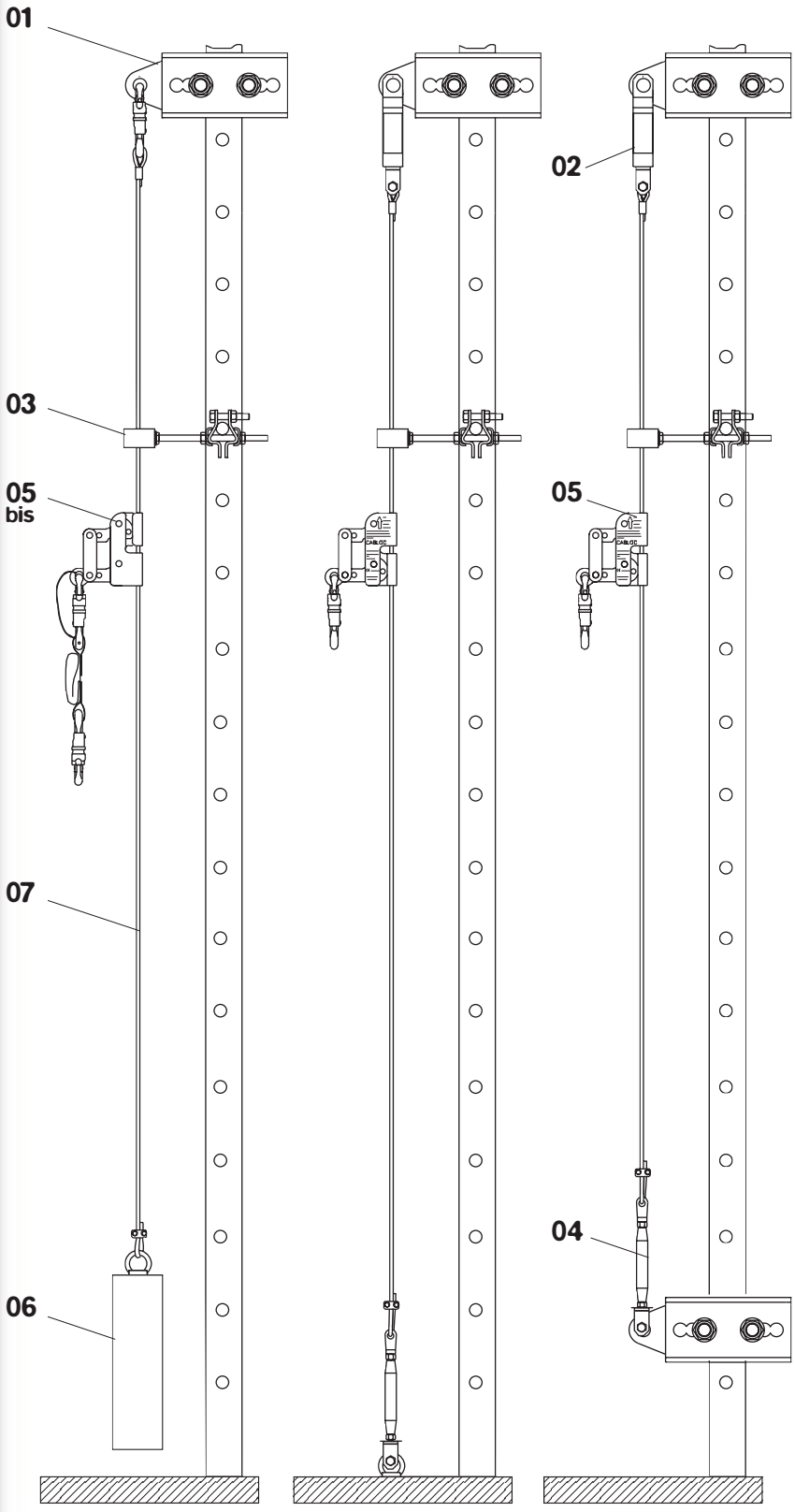


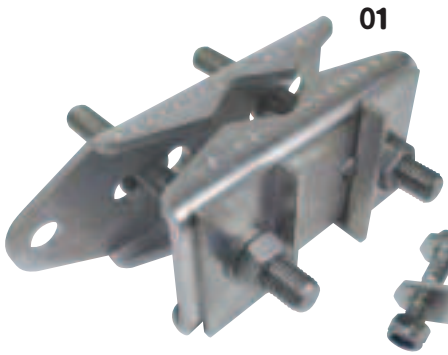
Clip

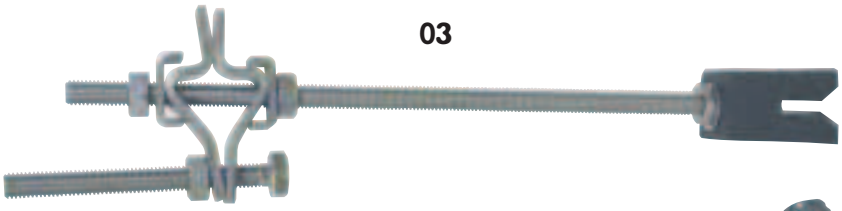
CABLOC vertical lifeline

The CABLOC system is designed to protect access to tower heads, poles, chimneys etc ...
The CABLOC system protects the user without any hindrance by sliding freely along the cable to which it is attached permanently.

CABLOC INSTALLATION PRINCIPLE







01 - General-purpose anchorage beam
Design to support any efforts generated by a fall. Suitable for most basic supports with diameter from 30 to 90 mm.
ref : AC340

- Material : stainless steel.
- Conformity : EN795 class A1.

02 - Energy absorption element.
ref : AC325

- Stainless steel.
- Heat shrink sheathing
- Synthetic elastomer.
- Maximum travel 70 mm
- Tripping threshold 2.4 kN
- Vertical and horizontal use.
- Single-purpose absorbing element.
- Breaking strength > 15 kN.
- Net weight : 1.1 kg.

03 - General-purpose cable guide.
ref : AC320

- Can be adapted to most basic supports. To limit cable floating.
- Material : stainless steel and rubber.

04 - Clevis and eye cable tensioner
ref : AC330

- Used for assemblies of the rigid attaching support type. The optimum tension needed for the smooth operation of CABLOC can be controlled by a built in tension indicator.
- Material : stainless steel.
- Available as clevis/clevis version under the reference AC330/1.

05 - CABLOC fall arrester.
ref : AC350

- Connection and disconnection easily at any point of the line.
- Material : stainless steel.
- Conformity : CE EN353-1 with rigid attaching support and CE EN 353-2 with flexible attaching support.

05 bis - CABLOC fall arrester with built in energy dissipater for installations deprived of line head absorber.
ref : AC350/4

- Connection and connection easily at any point of the line.
- Material : stainless steel.
- Conformity : CE EN353-1 with rigid attaching support and CE EN 353-2 with flexible attaching support.

06 - Counterweight.
ref : AC323

- Used for flexible anchorage line type assemblies. The counterweight guarantees minimum tension on the cable to allow the optimum sliding of the CABLOC.
- Material : - Bichromate zinc-plated steel.
- Delivered with 1 cable clamp.

07 - Stainless steel cable pre-finished for optimum installation.
ref : AC308/I

- Ø 8 mm stainless steel 7x19.

EN795A Anchorage points

The anchorage points, conforming to EN795 class A1 standard are permanent devices. They can be installed on metal or concrete structures. The user can be connected to an anchorage point and must use a fall arrest system. It is possible to use these devices with a working saddle and in this case, it is necessary to install a second anchorage point nearby used for the anchorage of a fall arrest system.

01 - Fixed anchorage point.
ref : AM210

- Stainless steel.
- Minimum structural strength > 10 kN.
- Pulling away strength > 10 kN.
- Shearing strength > 10 kN.
- Attachment by stainless steel bolts diameter 12 mm.
- Net weight : 45 g.
- Conformity with EN795.

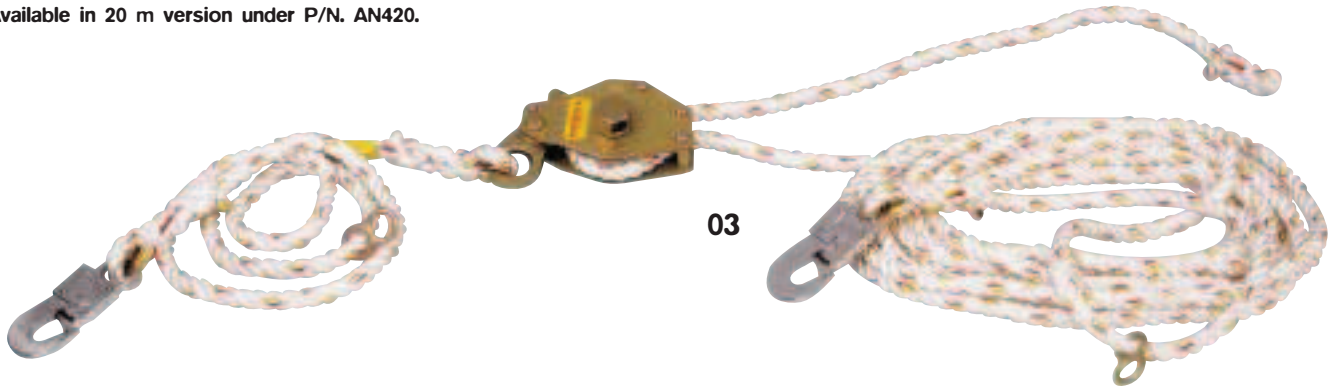
02 - Fixed anchoring ring.
ref : AM211

- Stainless steel.
- Minimum structural strength > 10 kN.
- Pulling away strength > 10 kN.
- Shearing strength > 10 kN.
- Attachment by stainless steel bolts diameter 12 mm.
- Net weight : 110 g.
- Conformity with EN795.

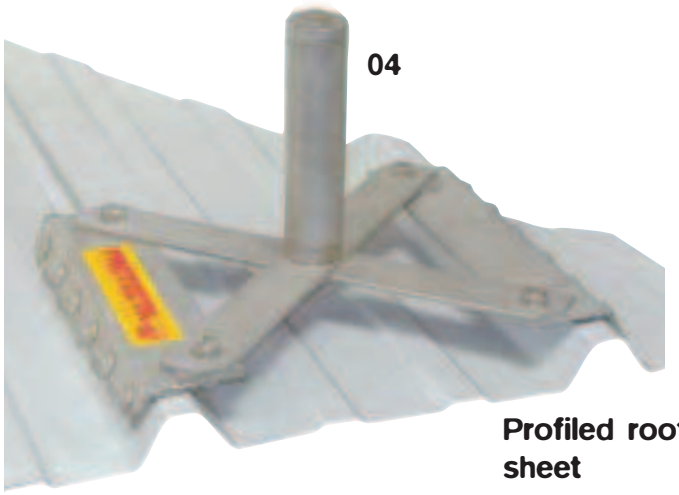
Temporary horizontal lifeline

03 - HARIP system.
ref : AN410

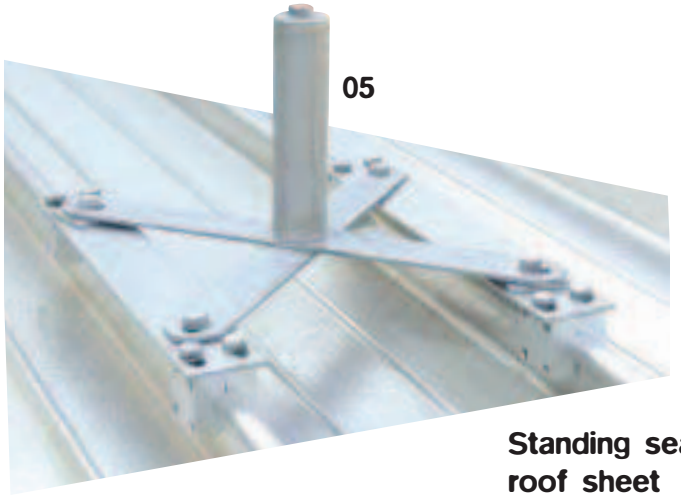
Temporary lifeline for easy and quick use, ideal for short-term maintenance jobs.
- 2 users.
- Maximum length : 10 m.
- Conforming to : EN795.
- Available in 20 m version under P/N. AN420.



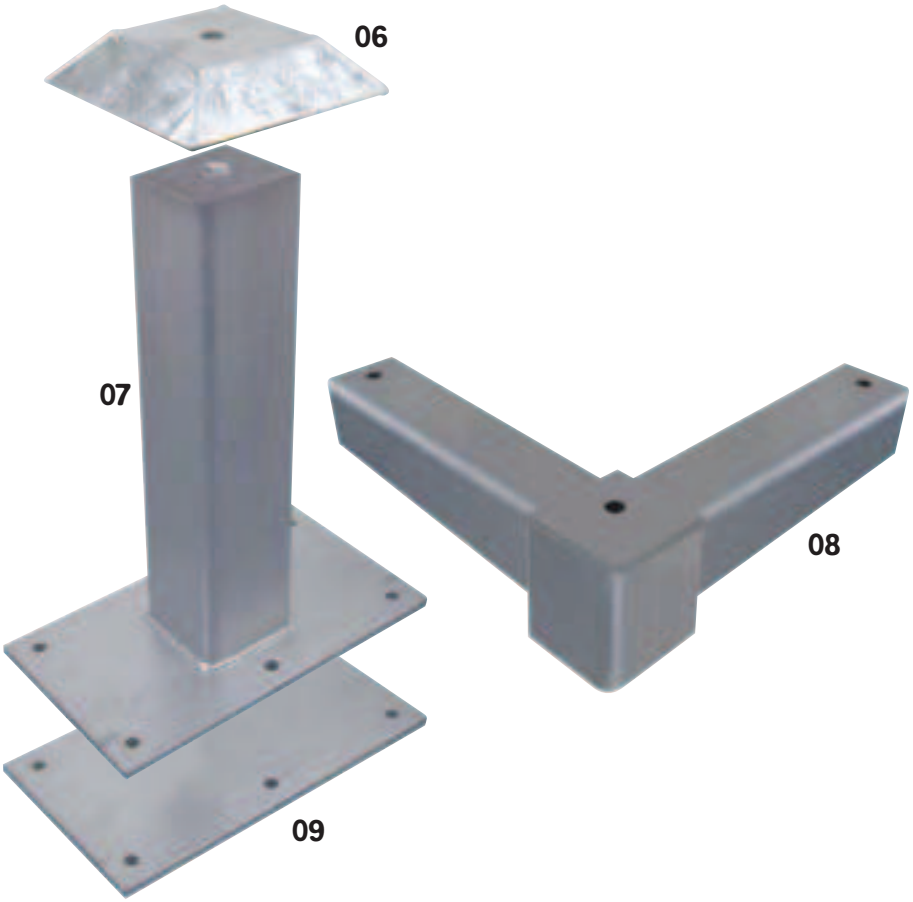
Posts



Profiled roof sheet



Standing seam roof sheet



TOPFIX post

TOPFIX posts can be fitted to all profiled roof sheets (fig 04) type AM220 or standing seam roof sheets (fig 05) type AM222.
Fast installation is by riveting or clamping to obtain a strong and waterproof anchorage on the roof, fitting must be made in accordance with PROTECTA instructions. Contact PROTECTA for details.
Can be used as :
- Anchorage post EN795A.
- Intermediate lifeline post EN 795/C.
- Lifeline corner post EN795/C.
- End post EN 795/C if the nominal force in the line does not exceed 750 daN for profiled roof sheet and 600 daN for standing seam roof sheet in the longitudinal direction of the pan.

- Steel pan minimum thickness 0.75 mm.
- Aluminum pan minimum thickness : 1 mm.
- Stainless steel.
- Longitudinal and lateral tensile strength on corrugated pan > 15 kN.
- Longitudinal tensile strength on rolled pan > 12 kN.
- Lateral tensile strength on rolled pan > 10 kN.

Caution : it is important to specify the type of pan when ordering.
The posts can be equipped with intermediate parts and anchorages by Protecta.

06 - Collar for post.
ref : AM251

- Material : Galvanized steel.
- Net weight : 250 g.

07 - Standard post.
P/N: AM250/500

- Galvanized steel.
- Section : 100 X 100 X 5 mm.
- Height 500 mm.
- Plate : 310 X 200 mm.
- Center distance : 160 X 260 X drilled to 14 mm.
- Net weight: 13 kg.
- Post sized for :
  - Anchorage post EN795A.
  - ARIANA end post EN795C.
  - ARIANA intermediate post EN795C.
  - ARIANA corner post EN795C.

08 - ARIANA corner adapter for standard post.
ref : AM255

- Galvanized steel.
- 80 mm bracket.
- Overall size : 375 mm x 90°.
- Net weight : 6 kg.

09 - Counter plate.
ref : AM250/1

- Galvanized steel.
- Plate 310 x 200 x 10 mm.
- Center distance 160 x 260.
- Drilling size Ø 18 mm.
- Net weight : 4.5 kg.