

Stopfor™ K, KS, KM, KSM, B, BS, BM, BSM, S, A, AP, M, P- EN 353-2

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Mobil fallstopp på fleksibelt sikringstau

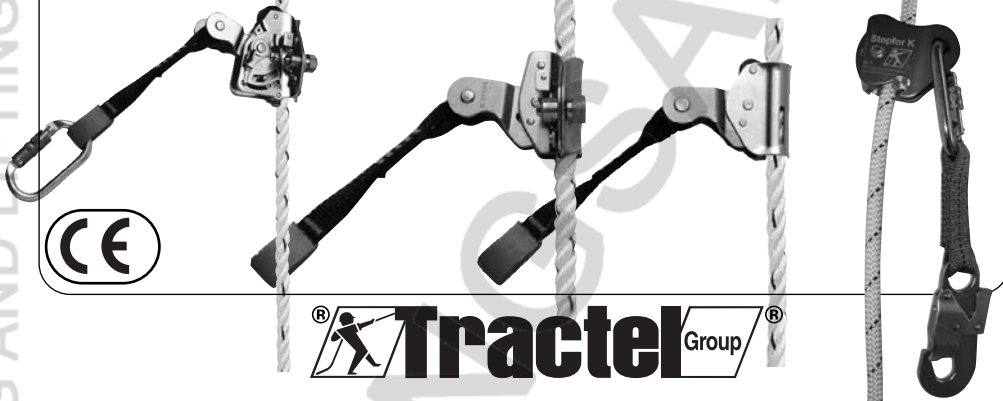
Rörlig fallbroms på flexibel säkerhetslina

Joustavalla varmuuspiimellä varustettu liikkuva putoamisenestolaite

Bevægeligt styrsikkert apparat på fleksibel sikringsanordning

Ruchome urządzenie zabezpieczające przed upadkiem z wysokości na elastycznej linie assekuracyjnej

Подвижное снаряжение на гибком страховочном тросе для защиты от падения



Tractel Group

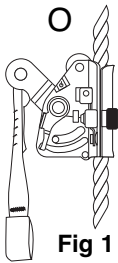


Fig 1

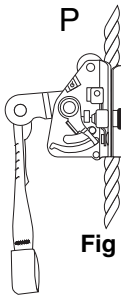


Fig 2

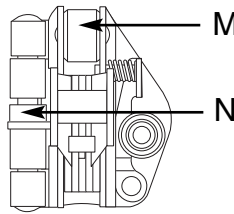


Fig 3

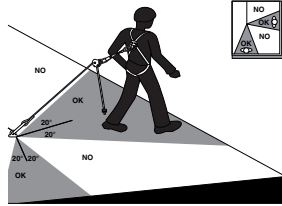


Fig 4

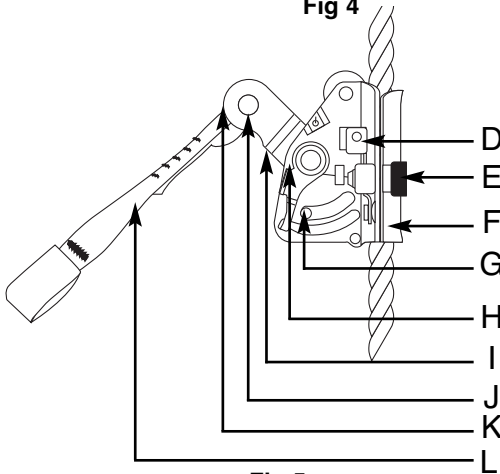
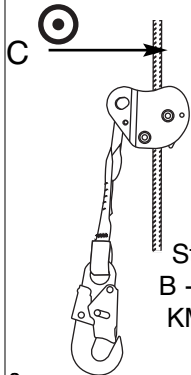


Fig 5



Stopfor™
B - K - KS -
KM - KSM

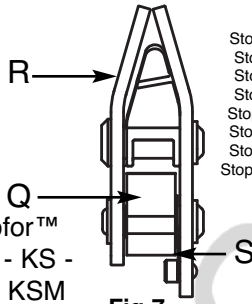


Fig 7

Stopfor™ ouvert
Stopfor™ open
Stopfor™ offen
Stopfor™ open
Stopfor™ abierto
Stopfor™ aperto
Stopfor™ aberto
Stopfor™ ανοικτό

Stopfor™ åpen
Öppen Stopfor™
Stopfor™ avoinna
Åben Stopfor™
Stopfor™ otwarty
Stopfor™ в
открытом
положении

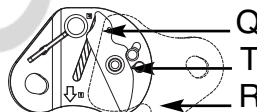
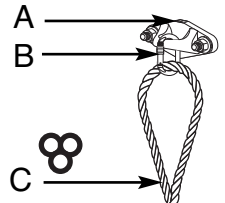


Fig 8



Stopfor™ S

Stopfor™ A

Stopfor™ AP

Stopfor™ P

Stopfor™
B - BS -
BM - BSM

Fig 6

Warning

1. Before using the Stopfor™, to ensure that it is operated safely and efficiently, it is essential that users read this manual, understand its contents in full, and comply absolutely with its instructions.
2. This manual must be kept in good condition, until the device is taken out of service, and must be made available to all operators. Additional copies can be supplied on request.
3. The information marked on the device (see "Marking" section) must remain totally legible. If this information is erased, the device must be permanently removed from use.
4. The Stopfor™ is a fall arrest safety system component, which must only be used in combination with other components that are compatible with one another and with the Stopfor™, and which comply with the applicable safety regulations and standards, in particular standard EN 363.
5. The Stopfor™ can only be used by one single trained and competent person, or under the supervision of such person. The principle of any such training must include the procedure to adopt in the event of a fall by the user. It should also include a demonstration as to how to set up and operate the Stopfor™ on a full system, taking example of an actual operating situation and using the appropriate safety measures.
6. It is essential to follow the instructions for attaching equipment together to form the protection system, as detailed in this manual and in the instructions supplied with the other equipment attached to it.
7. In particular, each Stopfor™ should be exclusively assembled on a flexible anchor line, the specifications of which must be strictly identical to those of the Tractel® anchor line, commercialised for the Stopfor™'s corresponding model.
The non-compliance of this requirement can put the user's life at grave risk. It is thus the responsibility of the user, or of his employer, to take stock of the available anchor lines to prevent any mistake in this regard.
8. Tractel® imposes the use of a Tractel® anchor line and declines full responsibility for using a Stopfor™ with any anchor line other than that of Tractel® origin and of the model indicated for the Stopfor™'s corresponding model. Furthermore, Tractel® can only guarantee a fall-prevention system, if it is exclusively comprised of components commercialised, serviced, assembled and set up, in accordance with the applicable safety measures and standards.
9. Tractel® accepts no responsibility for the operation of a Stopfor™ which has been dismantled other than under its control, in particular in the event of the replacement of original parts with parts from another source.
10. Any modification or addition to the equipment can be done only upon prior written approval from Tractel®. Must only be used with a belay support marked EN 353-2.
11. Prior to using the Stopfor™, the user, or the authority in charge of his safety, shall have verified the solidity of the anchor line's fastenings, in accordance with the rules and standards in force.
12. Never use a Stopfor™ or an anchor line that is not in apparent good order. Prior to each use, the user should manually test the functioning of the Stopfor™ on its anchor line (see "Tests prior to use" chapter). Any damaged Stopfor™ must be returned to Tractel® or to its distributor for repair, unless there is a decision to eliminate. Likewise, any anchor line showing signs of wear or damage must be eliminated.
13. All S, A, AP, M Stopfor™ models must only be used on a vertically suspended anchor line, or where the maximum angle with the vertical is 30°.
14. The Stopfor™ K, KS, KM, KSM, B, BS, BM, BSM must be used on a vertical belay support, or on a support forming a maximum angle of 30° with respect to the vertical. The Stopfors can be used in the horizontal position for work on a roof deck with a maximum angle of 20° with respect to the hip of the roof deck (see figure 4, page 2).
15. Any stopfor™ having prevented a fall, or the security of which is questioned, must be returned to Tractel® or to its authorised repair company for verification. Any such device can only be re-used upon written agreement from either Tractel® or its authorised repair company. Moreover, the anchor line in use when the Stopfor™ became activated to prevent the user's fall must be withdrawn from any further use.
16. Any repairs must be carried out in accordance with the Tractel® operating procedures.
17. Never use the Stopfor™, and the components used with it in the safety system, for any purpose other than that for which they are intended, and under conditions other than those described in this manual.
In particular, never use the Stopfor™ for suspending the operator other than in the event of a fall, and never use it for a rescue operation.
18. It is important to return the Stopfor™ to Tractel®, or to one of its authorised repair companies or competent persons, for servicing at least once every twelve months. Such servicing should not only cover the functioning of the device, but should also concern the legibility of markings. It is to be reminded that safety of the user is linked to the maintaining of the equipment's efficiency and resistance.
19. Important: If you are responsible for assigning the equipment to an employee or similar person, ensure that you comply with the applicable health and safety at work regulations.
20. It is recommended that the Stopfor™ is personally allocated to each user, especially if this is an employee.
21. Any Stopfor™ or anchor rope that has been removed permanently from use must be destroyed or made permanently unavailable, to avoid it being used by mistake.
22. For security reasons, it is important to ensure that the device or the anchoring point is always positioned correctly, and that the work is carried out with the aim of reducing, as far as possible, any risk of fall and the height of the fall.
23. For security reasons, it is essential to verify, prior to each use, the space required beneath the operator at the workplace to avoid the presence of any object in the zone of a possible fall and to avoid any collision with the ground.
24. Never use the Stopfor™ if any one of its elements is damaged or if its risks deteriorating the safety function of the device. When setting up, it is essential to ensure that no deterioration of the safety functions occurs.
25. The user should be fit and healthy, both physically and mentally, when using the equipment. Should there be any doubt, it is advisable to consult a doctor. The Stopfor™ must not be used by pregnant women.
26. The equipment should not be used above its limits, or in any other situation than the one intended (see "Conditions of use" chapter).
27. Should the Stopfor™ be sold to another country than its original destination, it is essential, for the security of the operator, that the supplier provides all instructions (i.e. general manual, maintenance and repair, periodical inspections) in the language of the country of use.
28. Prior to using the Stopfor™, it is essential that the user, or the authority in charge of his/her safety, shall have verified that the solidity of the anchor line fastenings is in conformity with the rules and standards in force.
29. The planned life-spans are:
 - 10 years for the Stopfor™
 - 6 years for the lanyards and anchor lines.

SPECIAL APPLICATIONS

For any special application, please contact Tractel®.

Function and description

The Stopfor™ is a fall-prevention self-tightening mechanical device, which comprises, with the flexible anchor line on which it slides, a sub-unit of the fall-protection system. For each Stopfor™ model exists a particular type of anchor line, specially designed for that Stopfor™ model.

Each Stopfor™ model, in association with the relevant anchor line, has undergone an EC-type examination carried out by a notified body.

DANGER

Using a Stopfor™ on a non-adapted anchor line for that model, as provided for in this instruction manual, could prevent the device from functioning, thus putting the user's life at grave risk when not preventing a fall.

- The Stopfor™ S travels along a stranded anchor line, by accompanying the user without necessitating any manual involvement during its journey up or down, and automatically blocks on the rope in the event of a fall.
- The Stopfor™ M is a Stopfor™ S equipped with a reinforced spring ensuring permanent locking of the Stopfor™ on the rope. With the device locked on the rope, the user is required to manually move the Stopfor™ when descending.
- The Stopfor™ P is identical to the Stopfor™ S, but is dependent upon the anchor line.
- The Stopfor™ A works in the same manner as the Stopfor™ S, but has an additional safety device, the "anti-panic device". Such device stops a fall, even if the user fails to let go of the control lever.
- The Stopfor™ K moves along the length of a guy rope type belay support and ensures the same function as the Stopfor™ A. It is installed on the halyard and does not use the same blocking principle.
- The Stopfor™ KS is a Stopfor™ K equipped with an anti-rotation system.
- The Stopfor™ KM is a Stopfor™ K equipped with a reinforced spring ensuring permanent locking of Stopfor™ on the rope. With the Stopfor™ locked in this way, the user is required to manually move the Stopfor™ when descending.
- The Stopfor™ KSM is a Stopfor™ K equipped with an anti-rotation system and a reinforced spring.
- The Stopfor™ B moves along a twisted strand belay rope and ensures the same function as the Stopfor™ K.
- The Stopfor™ BS is a Stopfor™ B equipped with an anti-rotation system.
- The Stopfor™ BM is a Stopfor™ B equipped with a reinforced spring ensuring permanent locking of the Stopfor™ on the rope. With the Stopfor™ locked in this way, the user is required to manually move the Stopfor™ when descending.
- The Stopfor™ BSM is a Stopfor™ B equipped with an anti-rotation system and a reinforced spring.
- The Stopfor™ AP is a variant of the Stopfor™ A to which a manual blocking function has been added. Such function enables the user to block his Stopfor™ on the rope.

The fall protection system consists of the components described below.

1. Fixed anchorage point (A. page 2)

2. The anchor line (C. page 2)

The Stopfor™ can only be used with anchor lines certified

exclusively by Tractel® S.A.S.

Stopfor™ A, S, M, AM, AP and P

The anchor line is a stranded polyamide 14 mm diameter rope.

It is supplied in multiples of 10 m in length.

Stopfor™ K, KS, KM, KSM

The anchor line is a static polyamide halyard Tractel, the diameter is 11 mm or 12.5 mm.

Stopfor™ B, BS, BM, BSM

The anchor line is a 12 or 14 mm diameter stranded polyamide rope.

Each anchor line (either rope or halyard) is equipped with a buckle at one end to fix the rope to the anchoring point. At the other end, a machined tip prevents the Stopfor™ from being accidentally released from the anchor line.

The anchor line's breaking resistance is above 22 kN.

The anchor line should be exclusively used as a safety line when working at heights to enable access to the work place in full security.

3. The Stopfor™

- Stopfor™ S (Fig.6 page 2)

By way of a lanyard, the user is attached to the jaw (I), the control lever (K) and the clevis mounting (J), all interdependent. The Stopfor™ S moves automatically along the anchor line. Due to a slight tension (equivalent to the device's weight), transmitted to the user via the lanyard, the jaw is opened and the Stopfor™ S can move along.

The casing is equipped with hinges to enable opening for installing the anchor line inside the Stopfor™ S. The casing is closed by screwing a knurled knob (E) and a threaded spare part found on the side of the removable flap into a crimped nut on the casing. Two simultaneous actions are necessary to open the casing: pushing the bolt (D) to unlock and unscrewing the knurled knob (E). The anchor line now vertically positioned (30° maximum authorised angle with the vertical), fastened at its upper limit and hanging naturally prior to the Stopfor™ S set-up, the guide pin (N) of the Stopfor™ S only authorises closure of the device on the positioned anchor line if the device is presented with the arrow engraved on the casing pointing upwards. The roller (M) guides the anchor line into the device.

Should the user fall, the lever will swing over by 45° due to the force applied by the lanyard, and the rope will be blocked against the removable flap (F) by the jaw.

- The Stopfor™ M (Fig.6 page 2).

• The Stopfor™ M is identical to the specification for the Stopfor™ S; it is equipped with a reinforced spring ensuring permanent locking of the Stopfor™ on the rope. With the device locked on the rope, the user is required to manually move the Stopfor™ when descending. For user comfort, the Stopfor™ lever arm is equipped with a plastic grip handle.

- The Stopfor™ A (Fig.6 page 2).

• The Stopfor™ A has two independent release systems which enable the jaw to engage on the anchor line and then to gently stop the fall. The first system is equivalent to that of the Stopfor™ S, with the user making the control lever swing over during his/her fall. The second system is equipped with an "anti-panic" device, whereby the roller detects any increase in speed caused by the lever being held inadvertently open during a fall and then drives the jaw towards the closed position.

- The Stopfor™ AP equipped with a blocking device (Fig.6 page 2).

Pressing the lever (H) simultaneously upwards and to the right enables it to come up flush with the release lever (G). Such lever holds the jaw tight against the anchor line, thus preventing any movement of the device on the anchor line. The release lever can be deliberately unblocked by the user.

• The Stopfor™ K, KS, KM, KSM (Fig.7 page 2) / Stopfor™ B, BS, BM, BSM (Fig.6 page 2)

The Stopfor™ K, KS / Stopfor™ B, BS move freely along the anchor line. In the event of a fall, the device swings over, thereby bringing the anchor line into contact with the shaft's upper part. The shaft revolves inside the device and then grips the anchor line.

The Stopfors™ KM, KSM BM and BSM move manually along the belay support. When a fall occurs, the device pivots to bring the belay support into contact with the upper part of the cam. The cam turns inside the device and grabs the belay support.

The system is comprised of two flanges articulated around the camshaft (Fig.8 page 2, Q). The device is opened by pivoting the mobile flange (Fig.8 page 2, R). The pressure of the shaft is maintained on the anchor line by the shaft's spring (Fig.8 page 2, S). As soon as the anchor line is in position and the connector has locked the two flanges, it is no longer possible to open the device; the anchor line is thus imprisoned inside.

The Stopfors™ KS, BS, KSM, BSM are equipped with an anti-turnover system (Fig. 8 page 2, T) ensuring the Stopfor™ a correct operating direction on the belay support. If the Stopfor™ is presented upside down with respect to the vertical belay support, the anti-turnover system blocks the jaw (Fig. 8 page 2, Q). This prevents installation of the Stopfor™ on its belay support.

The Stopfor™ KM, KSM, BM, BSM are equipped with a reinforced spring which permanently locks the Stopfor™ on the belay support. This function is generally used for interventions on slanted surfaces. With the device locked on the rope, the user is required to manually move the Stopfor™ when descending. For enhanced comfort when moving upward, the belay support should be ballasted by applying a coil or by placing a weight of 1 kg max. at the lower part.

4. The lanyard (Fig.5 page 2, L)

Several types of lanyard are available:

- Stopfor™ A: 0.3 m or 0.6 m length lanyard
- Stopfor™ S/M: 0.3 m 0.6 m or 0.9 m length lanyard.
- Stopfor™ K, KS, KM, KSM / Stopfor™ B, BS, BM, BSM: 0.3 m lanyard. Removable lanyards, codes 42222 or 42232
- Stopfor™ AP: 0.3 m or 0.6 m length lanyard
- Stopfor™ P: 0.3 m.

5. The connectors (Fig.6 page 2, B)

The breaking strength of the connectors supplied with the lanyard is greater than 22 kN.

Installation

1. Anchorage to the structure (Fig.6 page 2, A)

The anchor line is fixed to the anchoring point with a buckle and a connector. The anchoring point must be able to resist a minimum of 10 kN.

NB : The anchorage point may be strap, strength 10 kN.

WARNING

The anchoring point must always be situated above the operator.

Stopfor™ S, A, AP, P, M

2. Configurations of assembly

The K, KS, KM, KSM, B, BS, BM, BSM, S, A, AP, M, P Stopfor™ models should only be assembled on a vertically suspended anchor line or where the maximum angle with the vertical is only 30°. In actual practice, the user shall respect this condition by not moving away from the suspension point's vertical by a distance greater than half the height from the suspension point to the level of his plane of movement.

• For example, the user climbs up vertically (0° +/- 30° in relation to the vertical) onto a metal structure. When the anchor line is

positioned in front of him, the user is linked to the Stopfor™ by a 0.3 m, 0.6 m or 0.9 m lanyard, depending on the type of Stopfor™ used (Fig. 10 page 78). For this configuration, use K, KS, B, BS, S, A, AP, P Stopfor™ models.

- When the anchor line is positioned behind or facing the user, he is linked to the Stopfor™ by a 0.3 m, 0.6 m or 0.9 m lanyard (depending on the type of Stopfor™ used. Fig. 11 page 78). The K, KS, B, BS, S, A, AP, P Stopfor™ models are to be used.
- When the user climbs up a ladder, the anchor line is placed behind or facing him and he is linked to the Stopfor™ by a 0.3 m, 0.6 m or 0.9 m lanyard (depending on the type of Stopfor™ used. Fig. 12 page 78). The K, KS, B, BS, S, A, AP, P Stopfor™ models are to be used.
- The user works on a roof deck, his belay support is positioned horizontally; he can connect his Stopfor™ to the harness behind him or facing him with a 0.30 m lanyard. For this case, use a Stopfor™ K, KS KM, KSM, B, BS, BM, BSM (Fig. 14 page 78).
- The user works on a slanted roof; his belay support is positioned vertically with an angle less than 30°; he can connect his Stopfor™ to the harness behind him or facing him with a 0.30 m lanyard. For this case, use a Stopfor™ KM, KSM, BM, BSM, M (Fig. 14 page 78). With a 0.30 m, 0.60 m or 0.90 m lanyard, use Stopfor™ M (Fig 15 page 78).

3. Configurations of assembly with the AP Stopfor™

- The anchor line is vertical (0° to 30° in relation to the vertical). Once the parking brake has been activated, the user can work suspended. The Stopfor™ retains the user and ensures its role as fall arrester (Fig. 13 page 78).

WARNING

No slack must be made on the anchor line between the anchoring point and the Stopfor™.
It is thus essential to ensure that it is of sufficient length.

4. Clearance (Fig.A last page)

The clearance must be at least equal to the height of the fall $L = L1$ (lanyard length: 0.3 m, 0.6 m or 0.9 m) + $L2$ (braking distance 1m) + $L3$ (lanyard length: 0.3, 0.6 or 0.9 m) + 1 m for safety.

5. Operating environment

- Conditions found on open air sites
- Temperatures ranging between -40°C and +60°C [-40°F and +140°F]
- Marine environment conditions
- For any work involving product-ejection (painting, sandblasting, etc.), it is essential to protect the device against any such product penetrating inside the Stopfor™.

6. Rescue operations

A study must be carried out before use in order to define the emergency operations to be implemented and the human resources and equipment required for rescuing an injured person within 15 minutes in the event of a fall controlled by the Stopfor™. Any period longer than this will endanger the life of the person.

Inspection before use

To be verified:

- that neither the casing nor the flanges are deformed;
- the visual state of the anchor line and the lanyard;
- the blocking efficiency of the Stopfor™ fitted onto the anchor line: tug sharply on the device in the opposite direction to that indicated by the arrow on the casing;

- the loosening of the jaw and the movement of the Stopfor™ on the anchor line by pivoting the lever upwards;
- the system's installation conditions (see "Installation" chapter);
- the correct orientation of the Stopfor™ on the anchor line;
- the state of the harness and connectors' associated components.

Conditions of use

The user links up the Stopfor™ to his harness by way of the lanyard (L).

He then installs the Stopfor™ on the anchor line (C).

After which, the following procedure must be adopted:

(for the A, S, AP, M Stopfor™)

- open the device by pressing on the bolt to unlock with the left hand and by unscrewing the knurled knob with the right hand;
- the Stopfor™ must be positioned on the anchor line so that the arrow is pointing upwards and the device locked. Should the arrow be pointing down, the guide pin will prevent the device from closing;
- insert the anchor line into the casing, then close and screw the knurled knob tightly.

The Stopfor™ will automatically stop a fall in such an event.

For the K, KS, KM, KSM Stopfor™ / B, BS, BM, BSM Stopfor™

- open the device by turning the mobile flange;
- tilt the shaft by using the pin to free the anchor line's passage;
- insert the anchor line between the clamping axis and the shaft;
- close the mobile flange up to the clamping axis buffer;
- insert the M10 connector into the holes of BOTH the fixed and mobile flanges to lock the device;
- the Stopfor™ must be positioned on the anchor line so that the arrow is pointing upwards and the device locked.

The Stopfor™ will automatically stop a fall in such an event.

Storage

The Stopfor™, together with the lanyard and the anchor line, must be stored in a dry place (i.e. free from dampness) and at a temperature ranging between -40°C and +60°C [-40°F and +140°F].

Maintenance and repair

Regular maintenance must be carried out by the user. Besides the verifications specified in the "Inspections before use" chapter, the following maintenance should be carried out:

- Should the anchor line become dirty, it must be washed in clean cold water using a synthetic-fibre brush and, if necessary, a washing product for delicate fabrics.
- When the anchor line becomes wet during use or washing, it must be left to dry naturally in the shade and away from any source of heat.
- Prior to every use, visually inspect the anchor line along its entire length.
- Serious non visible damage can affect the resistance of the anchor line. Tractel® recommends, therefore, not to allow use of the anchor line unless under the control of a person responsible for the equipment.
- All acids, oils and petrol coming into contact with the anchor line shall affect its resistance. Such products are liable to "attack" the polyamide fibres of the anchor line, and any subsequent damage to the fibres may not always be visible with the naked eye.
- The anchor line should not be exposed unnecessarily to the sun, and should be stored in the shade away from damp.
- Any friction of the anchor line with sharp edges or rough surfaces is to be avoided.

- The anchor line should be kept in a sack for its protection and during transport. Tractel® can supply a sack adapted for work at heights.
- No particular maintenance of the Stopfor™ is required. Cleaning with soapy water is, however, recommended.
- Annual servicing and repairs are carried out by Tractel®, or by an authorised repair company.

Warnings against hazardous operations

It is forbidden:

- to use the Stopfor™ out of a fall arrest system context;
- to use the Stopfor™ to suspend the user or any other load;
- to link up several persons to the same Stopfor™;
- to place several Stopfor™ on the same anchor line;
- to use the A, AP, S, M Stopfor™ on an anchor line where the angle with the vertical is more than 30°;
- to use the Stopfor™ K, KS, KM, KSM / B, BS, BM, BSM in a horizontal position having an angle greater than 20° with respect to the hip of the roof deck (see Fig. 6 and 7 page 2),
- to turn the part of the anchor line on which the Stopfor™ is engaged upside down;
- to use a device that has stopped a fall, without having had such device checked and tried after fall by the manufacturer or a repair company authorised by him;
- to use anchor lines, lanyards and components other than those compatible with each Stopfor™ model, in accordance with that indicated in this instructions manual;
- to use the anchor line for any other use than that of the appropriate Stopfor™ model, including with another type of anti-fall device;
- to use a lanyard, which is longer than 0.3 m for the Stopfor™ K, KS, KM, KSM, B, BS, BM, BSM and P, 0.6 m for the Stopfor™ A and AP, and 0.9 m for the Stopfor™ S and M;
- to use an anchor line or a lanyard showing defects, knots or visible signs of damage;
- to use a device for more than twelve months without having had it checked by the manufacturer or a repair company authorised by him.

Permissible attachments

The K, KS, KM, KSM, B, BS, BM, BSM, S, A, AP, M, P Stopfor™ is a component of a vertical fall arrest safety system which should conform to the EN 363 standard and should include, from top to bottom:

- 1) an anchoring device conforming to the EN 795 standard;
- 2) a first connector conforming to the EN 362 standard;
- 3) an anchor rope (flexible anchor line) conforming to the EN 353-2 standard;
- 4) the Stopfor™, guided-type fall arrester with an automatic blocking system, conforming to the EN 353-2 standard;
- 5) a second connector conforming to the EN 362 standard;
- 6) a fall arrest harness satisfying the requirements of standard EN 361 (chest or back tie-up point).

All other associations are forbidden.

WARNING

An EN 361 fall arrester harness is the only body-gripping device authorised for use in a fall prevention system. It is advisable to use the front fastening of the harness.

In accordance with European specifications, to each of the components attached together, numbered from 1) to 6) above, marketed by Tractel®, has received CE marking, as a result of an EC type-examination, and has been subject to production quality control.

Conformity of the equipment

Tractel® S.A.S. RN 19-Saint Hilaire sous Romilly-F- 10102 Romilly-sur-Seine France hereby declares that the safety equipment described in this manual

- complies with the requirements of European Directive 89/686/EEC of December 1989
- is identical to the PPE which was the subject of type-examination certificates issued by Apave SUDEUROPE "CE0082", B.P.193, F-13322 Marseille cedex 16, and tested in accordance with the EN 353-2 standard;
- is subject to the procedure provided for in Art. 11B of the 89/686/EEC Directive, under the control of a notified body: TUV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln.

Any company assigning personal fall protection equipment to an employee or similar person must apply the health and safety at work regulations.

Within the European Union, these devices must be checked periodically in accordance with the 89/656/EEC Directive dated 30/11/89 (i.e. at least once a year, by Tractel® S.A.S or by a Tractel® S.A.S. authorised repair company).

The annual inspection will enable the expiry date to be extended by one year, up to a maximum of 10 years.

Marking

The marking on each product indicates:

- a: the trade mark: Tractel®;
- b: the designation of the product: e.g. Stopfor™ S;
- c: the referenced standard: number and year of the norm (see table p. 78). If the year for EN 353-2 is not indicated on the device, it concerns EN 353-2 (1993);
- d: the reference of the product code: Group code
- e: the "EC" marking designates that the equipment complies with the requirements of the 89/686/EEC PPE Directive. "0197" indicates the number of the notified body under Article 11;
- f: the date of manufacture;
- g: the serial number;
- h: a pictogram indicating that it is necessary to read the instruction manual before use;
- i: an arrow indicating the position for use;
- k: the location of the anchor line;
- m: the type of anchor line to be exclusively used:

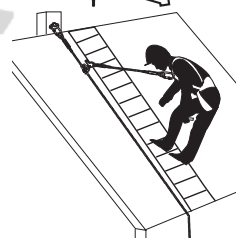
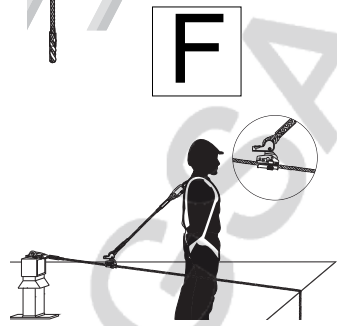
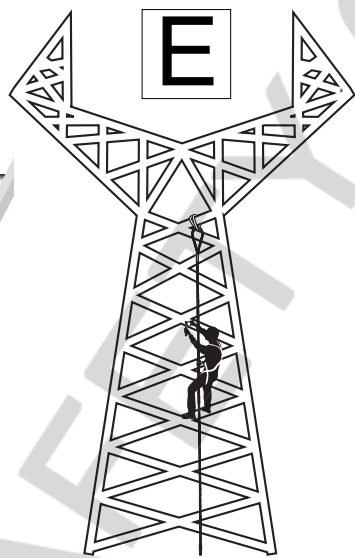
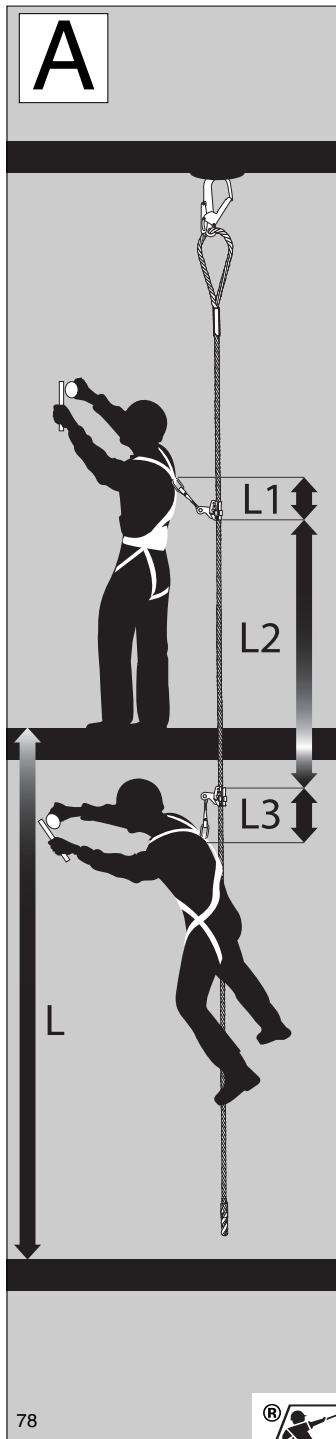


: halyard



: strandd rope

- n: diameter of belay support to be used.



	EN 353-2 (1993)	EN 353-2 (2002)	EN 358 (2000)
Stopfor™ P	X		
Stopfor™ S	X		
Stopfor™ A	X		
Stopfor™ AP	X		
Stopfor™ K		X	X
Stopfor™ B		X	X
Stopfor™ M	X		

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