



ACCEN MAGAZINE

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SHOTS
nr 10 2020



Inspecting personal fall protection equipment.

Documentation
Control methods
Types of damage

[illegible][illegible]

A collection of climbing gear laid out on a grey surface. The items include two yellow helmets, a yellow and grey harness with 'atten fall arrest' branding, several ropes in orange, yellow, blue, and black, various carabiners in orange, blue, and silver, and several belay devices in blue, red, and silver. A black and orange circular device, possibly a compass or a specialized meter, is also visible. The gear is arranged in a somewhat organized manner, showing the different components used in climbing.

Another type of equipment verification is **the periodic inspection**, which is carried out at least once every 12 months and more frequently in special cases. Such inspections should be carried out by a competent person with appropriate knowledge and experience and in strict accordance with the manufacturer's procedures. Each component of the fall protection system should have documentation containing information on:

- product name (e.g. safety harness), model and type of identification
- manufacturer's or supplier's name and contact details,
- means of identification, which may be either batch number or serial number,
- year of manufacture or use-by date,
- the date of purchase,
- maintenance rules,
- the date of first release for use,
- maintenance and repair history



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**RAPORT Z PRZEPROWADZENIA PRZEGLĄDU ŚRODKÓW OCHRONY
INDYWIDUANEJ ZABEZPIELAJĄCYCH PRZED UPADKIEM Z WYSOKOŚCI**
INSPECTION REPORT OF PERSONAL PROTECTIVE
EQUIPMENT AGAINST FALLS FROM A HEIGHT

Nazwa użytkownika (pełna nazwa, oddział):
User name (full name, branch):

Adres (lokalizacja przeprowadzanego przeglądu):
Address (location of the inspection carried out):

Rodzaje środków ochrony indywidualnej (ŚOI)

Types of Personal Protective Equipment (PPE):

- EN 353-1 Urządzenia samozaciskowe ze sztywną prowadnicą
EN 353-1 Guided type fall arrest devices with a rigid guide,
- EN 353-2 Urządzenia samozaciskowe z giętą prowadnicą,
EN 353-2 Guided type fall arrest devices with flexible anchor line,
- EN 354 Linki bezpieczeństwa,
EN 354 Safety ropes,
- EN 355 Amortyzatory,
EN 355 Shock absorbers,
- EN 358 Systemy ustalające pozycję przy pracy,
EN 358 Work positioning systems,
- EN 360 Urządzenia samohamowne,
EN 360 Retractable type fall arrester,
- EN 361 Szelki bezpieczeństwa,
EN 361 Safety harness,
- EN 362 Łączniki,
EN 362 Connectors,
- EN 795-B Tymczasowe urządzenia kotwiące,
EN 795-B Temporary anchoring devices,
- EN 813 Pasy biodrowe do pracy w podwieszeniu,
EN 813 Hip pads for work in suspension,
- EN 397 Hełmy ochronne,
EN 397 Safety helmets,
- EN 341 Urządzenia do opuszczania,
EN 341 Descending devices,

Wykaz sprzętu

Equipment list:

| Lp. No. | Nazwa sprzętu i model Equipment name and model | Producent Manufacturer | Normy Standards | Nr seryjny Serial No. | Uwagi Comments | Wynik przeglądu Inspection results |
|------------|---|---------------------------|--------------------|--------------------------|-------------------|---------------------------------------|
| | | | | | | |
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Sample documentation

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Przegląd został przeprowadzony zgodnie z zaleceniami producenta/ów kontrolowanego sprzętu w oparciu o instrukcję użytkowania. / The inspection was carried out in accordance with the recommendations of the manufacturer(s) of the controlled equipment based on the user manual.

Zweryfikowano poprawność funkcjonowania ŚOI zabezpieczających przed upadkiem zgodnie z wytycznymi producenta. / The correct functioning of the fall protection PPE has been verified according to the manufacturer's guidelines.

Skontrolowane ŚOI należy eksploatować zgodnie z zaleceniami producenta, zawartymi w instrukcji użytkowania. / The tested PPE must be used in accordance with the manufacturer's recommendations contained in the manual.



UWAGA:

Sprzęt, który uzyskał wynik pozytywny otrzymuje dopuszczenie do pracy na okres 1 roku, licząc od daty przeglądu, pod warunkiem używania go zgodnie z zaleceniami producenta. Sprzęt, który uzyskał wynik negatywny powinien być natychmiast wycofany z użycia.

WARNING:

Equipment with a positive result is allowed to be used for a period of 1 year from the date of the inspection, provided that it is used in accordance with the manufacturer's recommendations. Equipment that tests negative should be withdrawn from use immediately.

Imię i nazwisko kontrolera:

Name of the inspector:

Podpis osoby sporządzającej raport:

Signature of the person drawing up the report:

Imię i nazwisko osoby sporządzającej raport:

Name of the person drawing up the report:

Data przeglądu:

Date of inspection:

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Documentation

All information concerning periodic inspection and repair of the equipment during its operation shall be recorded in the control card. It shall also indicate any withdrawal from use.

During the inspection, the first thing to check is that complete documentation is available, that the user's card is filled and when the last inspection was performed. The equipment must be identifiable, i.e. in addition to the documentation, it must have legible markings characterizing it.



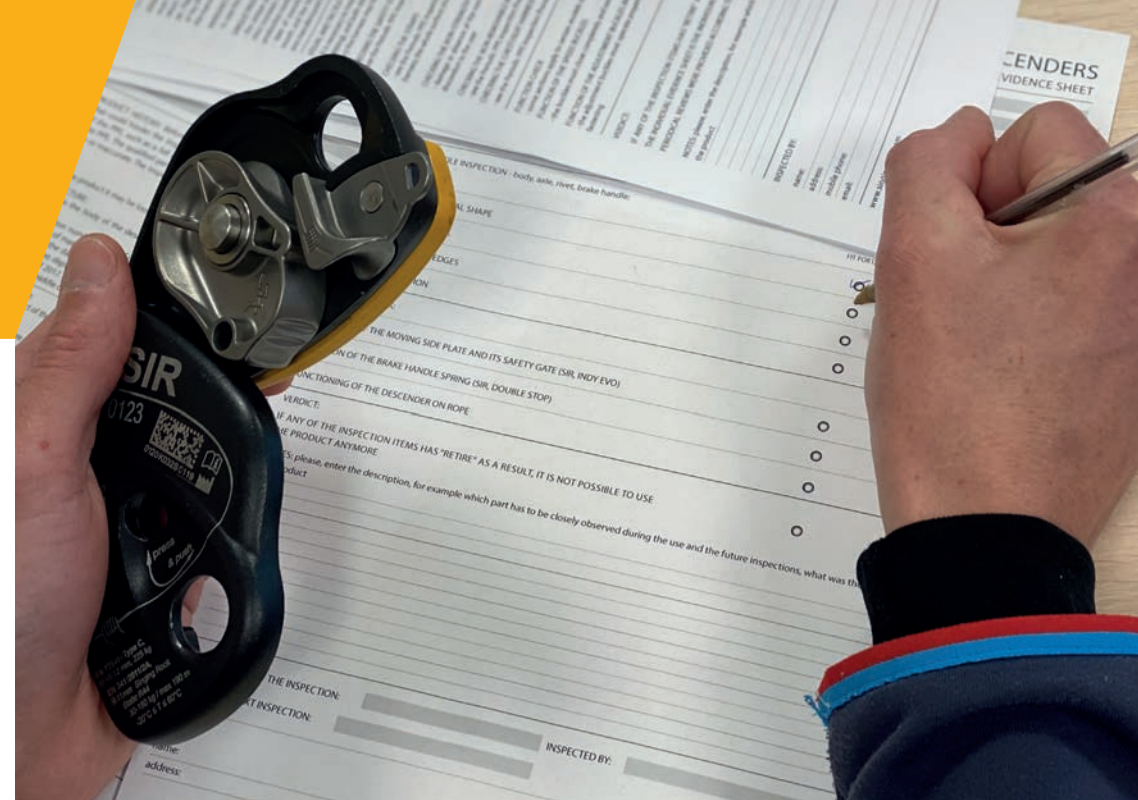
Control methods

In most cases, the inspections are performed using the **organoleptic method**, without the need to use specialized tools. In some cases, basic tools are useful, such as: caliper, tape measure, magnifier glass, hot knife, synthetic grease.

It should be mentioned that there is also a certain group of equipment falling under the category of personal protective equipment, which **requires special checks with dedicated tools and/or equipment**. These include some of the guided type devices, rail guided type devices, escape and rescue devices and others specified by the manufacturer.

Common PPE can be verified **manually** or using a **comparative technique**. It is based on searching for anything that deviates from the norm in comparison with a new product.

The construction of personal protective equipment used to work at height is characterized by the complexity of the structure. **Critical knowledge and experience in the field of safety equipment** are necessary for the correct assessment of personal protective equipment and other equipment.



Types of damage

What should be taken into account when checking the technical condition of individual components made of metal, plastics, including synthetic fibers:

1. Damage to the straps as a result of mutual friction between various elements, e.g. the strap and the buckle - may damage the supporting structure of the safety harness
2. Natural wear and tear of textile elements through degradation of the fibres when exposed to UV radiation, damage caused by mineral particles (sand grains, etc.), exceeding the „age limit“ - aging of the material, loss of elasticity due to repeated wetting / drying
3. Incorrect use causing abrasions, damage (cuts, unstitching fibers) with sharp tools or structural elements, melting / burning of the tapes with fibers due to friction, contamination with chemical substances,
4. Dynamic loads on elements carrying high forces when stopping a fall, especially with a high rate of fall,
5. Corrosion of metal parts, especially in sheltered areas (e.g. buckles in safety harness) due to improper or lack of maintenance,



Types of damage

6. Bent and deformed metal parts indicate very high overloads (e.g. related to falling off) or improper use (e.g. dynamic loads threaten to bend the casing of the downhill instruments),

7. Mechanical damage as a result of an impact (deep dents on the body) against the ground from a great height,

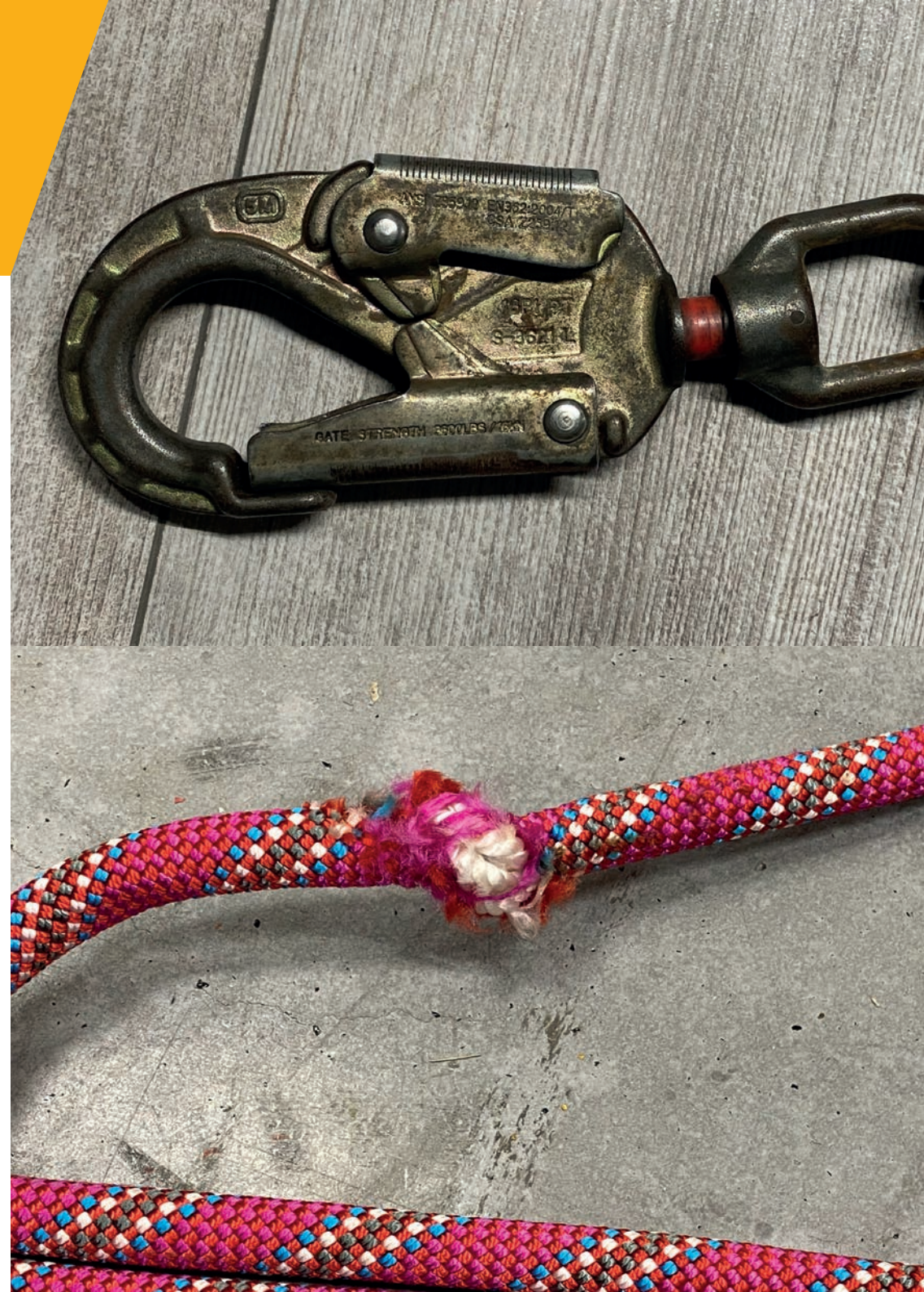
8. Damage caused by an incorrect way of marking the belonging to the owner (e.g. „stamping“ initials on metal parts)

9. Cracks and structure fractures caused by falling from a great height to a hard surface,

10. Tearing of the absorber seams (according to the assumptions of energy absorption), abrasions or torn seams (e.g. safety harness)

11. Deformation of the safety helmet due to sitting on it and crushing it (e.g. due to improper storage),

12. Destruction of the material of the protective helmet shell by using stickers, marking it with markers not intended for this purpose,



Types of damage

Equipment that has not passed the inspections due to damage or exceeding the use-by date should be properly marked and isolated so that it cannot be reused. The best solution is to physically destroy and dispose of the remaining waste.

Always follow the manufacturer's instructions in the user manual when carrying out maintenance.





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Accen Magazine is a combination
of Accen Works (company projects
on the website) and Accen Shots
(online instructional monthly).

Accen Shots discuss issues related
to the implementation and use of
fall protection systems and work
at height.