

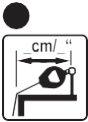
User Manual

IKAR Fall Arrester



ENGLISH

Setback distance required for horizontal use acc. to ANSI/ASSE Z359.14-2014







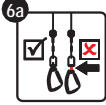
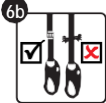

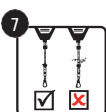
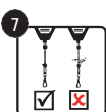
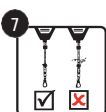
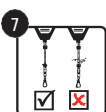
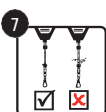
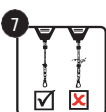


Type	Setback distance
HWB 1,8	30 cm / 12 in
HWB 1,8 DW	
HWDB 2	
HWB 2	40 cm / 16 in
HWB 2,8	
HWB 3,5	
HWPB 3,5	
HWPS 3	
HWPS 4,5	
HWS 4,5	
HWPB 5,5	
HWPD 7	
HWPD 9	50 cm / 20 in
HWS 6	
HWS 9	
HWPS 6	
HWPS 9	
HPB 7	
HPS 6	70 cm / 30 in
HWS 12	
HWS 18	
HWS 24	
HWPB 12	
HWPB 15	
HWPS 12	
HWPS 15	
HWPS 18	
HWPS 24	
H 12	
H 18	
H 24	
H 33	
HPB 12	
HPS 12	
HPS 18	

* Average arresting force when dynamically tested in accordance with clause 3.1.9 of ANSI/ASSE Z359.14-2014: 3,4 kN / 765 lbF

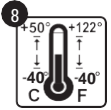
Instructions for use

Safety information

1. Fall arresters according to EN 360:2002, CSA Z259.2.2, ANSI/ASSE Z359.1-2007, Z359.14-201 constitute personal protective equipment (PPE) for the purposes of protection against falls. In combination with a full body harness according to EN 361:2002, CSA Z259.10-06, ANSI/ASSE Z359.1-2007, this system serves to protect persons working at heights where a falling hazard exists (e.g. roofs, scaffoldings, ladders and shafts). Only use the device as intended. 
2. Failure to observe these instructions for use and the safety information can lead to fatal injuries (2). In case of a fall, has to be ensured that the person is not left hanging for longer than 15 minutes (danger of shock). 
3. For use with the fall arresters only full body harnesses according to EN 361:2002, CSA Z259.10-06, ANSI/ASSE Z359.1-2007 are approved (other harnesses are not permitted) (1). 
4. One piece of equipment can only be used to protect one person at a time, but can be used by several persons one after the other. A rescue plan has to be available that considers all potential incidents which may occur during work. 
5. A sufficiently strong, suitable fastening point corresponding to the national regulations with a min. load-bearing capacity of 9 kN (North America 22.2 kN) must be chosen for the device. The fastening is done with snap hooks according to EN 362:2004 / CSA Z259.12-01 / ANSI/ASSE Z359.12-2009 or sling according to EN 795, whereby the sling is pulled through the bracket of the device and closed with a secured snap hook (3). In case of devices with rotatable swivel eye hanging, the snap hook is connected to the anchorage point and rotatable swivel eye. For use of the fall arrester on a type C / class C anchor device according to EN 795 / (only if approved for shared use) with a vertically flexible anchor line, the excursion of the anchor device has to be considered when determining the required clearance underneath the person using the device. The information provided in the instructions for use of the anchor device has to be observed in this context. 
6. If possible, the device should be positioned vertically above the head of the person to be secured in order to prevent any swinging movement during the fall. The suspension of the device has to ensure adaptation to any potential cable / webbing deviations. After attaching the device to the anchor point, the end of the expandable lanyard (snap hook) has to be fastened to the D-ring of the full body harnesses. Connectors which are not self-locking (snap hooks) have to be screwed together using the retention nut (4). 
7. After attaching the fall arrester to a suitable anchor point (according to EN795 / DGUV R 112-198 / ANSI/ASSE Z359.1-2007) and connecting the connector (snap hook) to the D-ring of the full body harness (according to EN361:2002 / CSA Z259.10 / ANSI / ASSE Z359.1-2007) worn by the worker, the personal protection of the worker is ensured. 
8. A visual inspection of the device and a check of the readability of the product labelling is required before each use. 
9. In addition, a functional test is required prior to each instance of use. This is done by pulling out the cable / webbing or by applying a weight of at least 15kg. In both cases the drum brake has to engage (6). 
10. Fall arresters shall not be used to secure persons above bulk material or substances which would allow a person to sink in (6). 
11. If a device has been damaged and / or has sustained wear due to a fall (tripped fall indicator! (6a + b)) or if any doubt exists about to the safe condition of the device it must be withdrawn from use immediately. It may only return to use following inspection and written approval by a competent person or the manufacturer. 
12. Depending on the use but every twelve months as a minimum fall arresters have to be inspected by the manufacturer or by persons trained and authorised by the manufacturer. This inspections has to be documented in the supplied log book. Effectiveness and durability of the fall arrester depend on regular inspections. 
13. If the thread breaks or the cable / webbing is bent or roughened the fall arrester has to be sent to the overhaul workshop. The cable / webbing has to be replaced there. (7). 
14. DGUV R 112-198 (Use of personal protective equipment against falls) and DGUV R 112-199 (Rescue from heights and depths with personal protective equipment) as well as DGUV Information 212-870 (Full body harnesses and lanyards for belts for work positioning) has to be observed. 
15. The clearance below the feet of the person using the device has to be at least 2.0m if the device is attached above the person using the device. 

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- The IKAR fall arrester can be used in conformity with EN 360:2002, CSA Z259.2.2-98, ANSI/ASSE Z359.1-2007, Z359.14-2014 within a temperature range between -40°C (-22°F) and $+50^{\circ}\text{C}$ ($+122^{\circ}\text{F}$) (8).
- The max. working load of the person to be secured is 136 kg. (9).
- Fall arresters have to be protected against the impact of welding flames and sparks, fire, acidic substances, alkaline substances and alike.
- Do not apply any modifications or repairs to the fall arrester (10).
Repairs may only be carried out by the manufacturer or persons trained and authorised by the manufacturer.
- Fall arresters may only be used by persons who have been trained accordingly or have been instructed by a competent person. The person using the device shall not have any physical or health impairments. (Alcohol, drug or medication abuse, cardiovascular problems)
- The service life of the fall arrester has to be determined during each annual inspection; depending on wear, it is approx. 10 years.
- The fall arresters of types HWB / HWPB / HWS / HWPS which are equipped with a hook clamp swivel mounting should be attached to the anchor points in such a way that no transverse or bending load can impact the hook clamp swivel mounting. This is of particular importance in case of a fall.
- The fall arresting devices (HWB 2 and HWPS 3-type) can also be equipped with a special swivel (SW-type).
- The suitability for use of a fall arrester with horizontal fall protection in conformity with the current standards should be verified by suitable tests on the complete system.



Care and maintenance

- The cable / webbing should be rolled up only with a load applied. Never pull the cable / webbing out entirely and the release it as the sudden impact of the snap hook on the device may cause the return spring to break (11).
- For devices which are continually exposed to outdoor conditions it is recommended to grease the steel cable with acid-free oil or Vaseline in regular intervals (for steel cables only).
- The retractable lanyard is made of PES / Dyneema and must be cleaned with warm water or neutral cleaning agents only. Do not use thinner or the like. Use clean water to rinse away any cleaning agent residue.
- Attention: Please note!** The fall arresters have to be stored and transported in a dry, dust-free and oil-free environment.
- Textile components which have become wet due to cleaning or use have to be dried by natural means only. Do not dry near fire or similar sources of heat.
- Before using disinfectants, you have to contact the manufacturer due to the complex legal product classifications based on the specific applications and constituents.



Horizontal use

Please note: The fall arresting device has been successfully tested for horizontal application and a fall over the edge simulated from this. Here an edge radius $r = 0.13\text{ mm}$ was used for fall arresting devices with fastener made from webbing (12). Based on this test, the fall arresting device is suitable for use over similar edges with a radius of $r \geq 0.5\text{ mm}$ (12a) according to EN and $r \geq 0.13\text{ mm}$ in the USA, as are typically present on rolled steel profiles,

on wooden beams or on a panelled, rounded fascias. In addition, wall arresters with wire cable are also suitable to withstand wear by edges such as that of flexible (non-reinforced) trapezoidal sheet metal, pre-cast concrete elements or poured-in-place concrete edges. Notwithstanding this test, the following must be observed at all times or horizontal or inclined use in which the risk of a fall over an edge exists:



- A risk assessment has to be carried out prior to starting work. If the edge over which a fall may occur is a particularly "cutting" edge and / or is not free of burrs (e.g. uncovered parapet or sharp, reinforced sheet metal edge) appropriate precautions shall be taken prior to starting work.
 - a fall over the edge has to be excluded and
 - the max. working load of the devices for the stress sustained during a fall over edges (6) must not be exceeded and
 - an edge protector has to be installed prior to starting workIn cases of doubt it is recommended to contact the manufacturer.
- The anchor point of the fall arrester shall not be below the surface (e.g. platform, flat roof) the person using the device is standing on (13).

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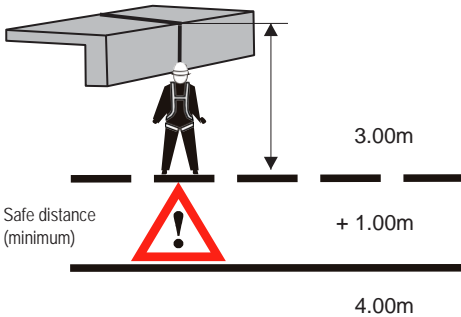
3. The required clearance below the edge is shown in Figures 15, 16, 17.
4. In order to prevent a fall with a swinging movement the working area and the lateral movement from the centre line have to be limited to max. 1.50m on both sides. In other cases, no single anchor points shall be used, but e.g. type C / class C anchor devices (only if approved for shared use) or type D / class D devices according to EN 795.
5. For use of the fall arrester on a type C / class C anchor device according to EN 795 with a horizontally flexible anchor line the excursion of the anchor device must also be considered when determining the required clearance underneath the person using the device. The information provided in the instructions for use and the safety information of the anchor devices have to be observed in this context.
6. In case of a fall over an edge there is a danger of injury during the process of arresting the fall due to the falling person hitting parts of the building or structure.
7. Special measures for rescue has to be defined and trained for cases of falls over an edge.
8. Fall arresters labelled with Figure 14 are unsuitable for an impact load over unprotected edges (e.g. retractable lanyards made of Dyneema or stainless steel cables).
9. For the correct distance from the device to the edge in case of horizontal use see the list at the beginning of these instructions for use (18)



Accessories

Please note: In order to prevent a negative impact on the safe function of the fall arresting devices, it is only permitted to use accessories approved by the manufacturer (e.g. rescue clamps to DIN 19428:2018, protective covers, etc.). The manufacturer is not liable for any accidents involving the life and limb of the user if using non-approved accessories.

15 Fall over edges at right angle



16 Fall over edges with lateral offset

