

**Alsamex Fall Arrest Units**  
**Soft landing system for collective fall arrest safety**



**SPARK RESISTANT CASE - USER GUIDE**

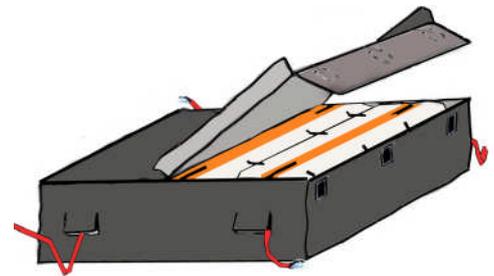
**Introduction**

The Alsamex spark resistant case is designed to be used to protect a connected bank of 3 x Alsamex fall arrest units from weld & grinding sparks & light welding spatter.

The case material is reinforced fabric, coated on both sides with a fully cured Flame Retardant compound. The non-permeable case material has excellent resistance to oxidation & weathering, providing good resistance to oils, greases, acidic liquids & vapours and has high abrasion resistance.

The inner units have been impact tested using test method BS EN 364: 1993. The outer case fabric complies with BS476 Part 8, 1 hour rating and is certified to class 1 BS476 Part 7.

The straps provided are to allow connection to an adjacent case. Optional straps are available assist connection to structures and to the straps provided with each Case. The 4 straps provided with each case can also be used to secure each pair of cases to a structure or anchor point.



**INSTRUCTION FOR USE:**

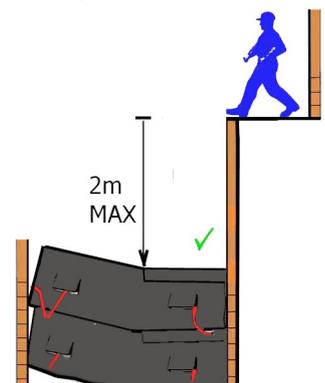
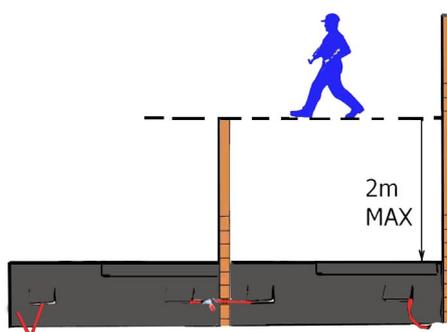
**Installation main points**

All work at height must be properly planned and supervised and carried out in a safe manner. Installing the units & cases is a simple non-hazardous process and may be carried out by your own personnel using the installation guide provided or following basic training. The units must be installed as close to the working level as possible in order to minimise the distance a worker could fall.

**Fall heights**

**Alsamex Fall Arrest Units are designed to be used with a maximum free fall height of 2 metres above the top surface of the units.**

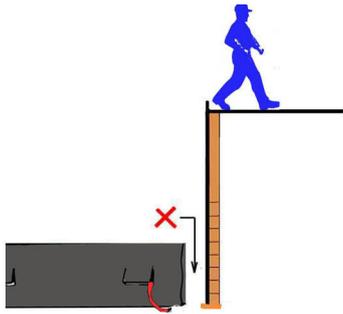
**If a greater height is involved a second layer can be easily installed provided that a maximum 2 metres free height is maintained.**



The filled cases should be installed by trained personnel. All supporting base or floor surfaces on which the cases will be installed should first be brushed clear of any debris and sharp objects. Surfaces should give firm and adequate support for the units in the event of any fall, over the complete area onto which the units are placed. For any opening in floors, for example, stairwell openings, these should also be temporarily boarded with firm and adequate support covering the whole area, before the encased units are placed over them. Ensure the units cover all of the floor area under the working area.

**Please refer to Alsamex fall arrest user guide 1.8**

## Placing and securing the filled cases & units

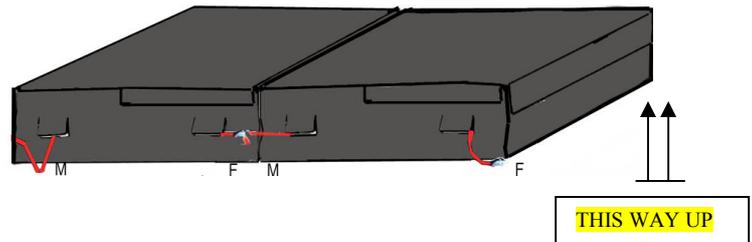


All cases must be connected and secured to a structure to avoid movement e.g. from strong winds

For edge protection such as scaffold & trailer fall arrest, ensure that the positioning of the units is flush with the edge of the trailer or working platform/surface.

Ensure there is sufficient coverage to protect the potential fall area. The projection coverage distance out from the trailer or working platform/surface should be a minimum of 2metres.

1. Ensure the opening surface is facing upwards
2. Check the top and side access flaps are closed and facing downwards ( as shown below )
3. Load the 3 connected fall arrest units inside the case ( if not supplied assembled )
4. Ensure the orange 3 stripes are on the top and placed with the orange stripes pointing towards the side access flaps. See Figure 1 , on page 1
5. Check all 3 inner units are connected clips to each other and close the flap and secure using the 3 Velcro fasteners.
6. Ensure the filled case is pushed tightly against the fall area
7. When connecting cases, ensure they have been laid in the correct orientation. ( M / F )
8. Before connecting cases, ensure the cases are as close to the fall area as possible, to avoid moving connected cases.
9. Where multiple cases are used, push each case hard against each other before tightening the connecting straps.
10. At **both** ends, pull the open-ended strap (M) through the adjacent cam buckle (F) until the units are firmly pulled together. Do not over tighten the straps, avoiding damage to the side access outer fabric. Suitable tension is just enough to be unable to put your foot through the join
11. Ensure any excess strap is neatly coiled and inserted inside or under the case to keep tidy and not cause any hazard & reduce the risk of the straps being damaged by hot sparks, sharp edges, abrasion or exposure to chemicals, acids or alkaline substances such as cement.
12. In cases of potentially heavy weld spatter and to prolong the life of the outer skin, it is recommended to also lightly wet/spray the surface of the closed cases with water before each use.



## Interconnecting straps (Before & after use)

Inspect the straps and clamping buckle for wear or any damage. Ensure the strap is clean & brushed free of any dirt or mortar. To disconnect the straps & release the strap tension, push back the cam buckle lever to release the paired straps.



## **CARRYING, LIFTING & STORAGE**

Avoid using the side access flaps as anchor points and instead hold on to the units 100mm belt, through the side access flaps.

The filled cases must be lifted by at least two persons and may be transported using a forklift truck. Take care not to damage the cases with the forks. When adjusting gap between forks to suitably balance the base of the Cases, do not stand between the forks or between the truck & Case(s)

If the stack height restricts forward vision the lift truck should travel in a reverse direction and the driver looking in the direction of travel & checking for overhead obstructions. When locating or positioning the cases, whilst travelling in a forward direction, the driver should seek assistance from a person acting as banksman and who is not standing in the path of the truck or Stillage. The cases should be unloaded by hand one by one and whilst not interconnected ( Minimum 2-persons to carry out lifting )

### **Manual Handling & Lifting**

Gross Weight GWT of one filled case = 35Kg, including 3 enclosed units & straps

If carrying the Stillage manually, this must be done by holding the underside of the case and with a minimum of 2 persons over short distances less than 2 metres. Keep a straight back, your chin up and arms & Stillage close to the body. Where practical, avoid manually lifting, towing or dragging the cases along the floor. Do not attempt to manually lift more than one filled case, connected cases or any case on your own

### **Equipment check & storage**

Care in handling and use is important to extend the life of the cases.

Before & after using the cases, visually check that it is undamaged & brushed free of any dirt or mortar.

Always report any faults found and withdraw any faulty case from service until it is repaired or replaced



- Do not climb or walk on the cases, filled or unfilled
- Only use the case for its intended purpose
- Regularly check the cases & straps for any signs of deterioration or damage

- Should rain/water collect inside, tuck the straps inside the filled case & and the case(s) vertically leaning against a wall/structure to allow the water to escape out from the sides overnight.
- When the cases are not in use, it is recommended they are kept stored inside where possible. Assembled cases can be stacked. For stability, this should be kept to a MAXIMUM of 3 high and all 3 fall arrest units kept inside the casing

### **General safety cautions :**

General safety awareness is just as important with this product, as with all other safety products. Good safety systems alone can not guarantee to eliminate all hazards and risk of injury.

Effective safety operation is dependent on proper use and general safety considerations by users of the system. E.g. If a worker's fall was partially broken by bumping into something as they fell, safety could be compromised.

Always remember, age & fitness affects a person's ability to withstand the effects of a fall



Although the inner Alsamex Fall Arrest units are treated with Flame Retardants to reduce the risk of fire, like many other plastics materials, this product is combustible. For welding or similar applications, the outer case black fabric must cover the white and orange fabric of the inner units & straps at all times & to minimise the risk of sparks falling inside the case.

- ✓ Consider fire hazards. No smoking, hot work or welding above exposed inner units. Keep the inner units away from flame and other sources of ignition.
- ✓ Consider access & egress; ensure units are not obstacles, especially around foot of ladders. Safeguard your own safety and that of your workmates by ensuring correct installation and regular inspections.
- ✓ **Visually inspect daily, before use even if already installed**
- ✓ **The spark resistant case is spark & flame retardant, not flameproof.**
- ✓ For traceability, when reporting any defect or incident please make a note of the year of manufacture and serial number, if applicable, on reverse side of the Caution tag, as shown on the Caution tag attached to the end strap of each inner unit
- ✗ Do not throw scaffold, tools or other objects on to cases or units.
- ✗ Avoid unnecessary walking over the encased units
- ✗ Do not carry the units up ladders, hand them up to a workmate or hoist them up

It is recommended that a formal and thorough inspection be carried out at least once every year when indicated by the inspection tag attached to the end strap the inner units  
**(Please refer to Alsamex fall arrest user guide 1.8 ).**

Report any obvious defects or any concerns immediately e.g. torn fabric/straps, broken buckles or over-compressed inner units. As a rough guide to check the filling is sufficient:

- 1) Place the inner unit on the floor unconnected and flat against a solid wall.
- 2) Push in the other end with your hand over the central plug.
- 3) If the edges of the cruciform plug are hurting your hand you are pressing too hard.
- 4) If you able to push in the central plug beyond the first side strap the safety inner units may need refilling or replacement.

### **Like any accident, near-miss or incident, always report any fall on to the units**

If any heavy equipment has been dropped onto the encased units, they will need checking to ensure that they have not been excessively compressed or case fabric torn. Any torn cases or over compressed units should be withdrawn from service and replaced

### **Remember safety first every time**

#### Replacement & Optional items available

9168/STILL	- Steel stillage	- to hold up to 19 units or up to 5 filled cases
9168	- Fall arrest Unit	- 3 off required per case
9168 /CASE	- FR/Welders Case	- to hold 3 units & protect from welding sparks
9168/STRAP1	- Yellow 7m Ratchet	- for securing connected units to a structure
9168/STRAP2	- Blue5m Cam	- for ad-hoc securing units to each other
9168/STRAP3	- Red 2m Cam	- for securing stillages to a Forklift (anti-slide)
9168/STRAP4	- Orange 10m Ratchet	- for securing cases or units to a Stillage
9168/STRAP/M	- Red 950mm	- open ended strap for connecting cases
9168/STRAP/F	- Red 355mm	- strap with cam for securing 9168/STRAP/M

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