

# AIRDECK

Operating Manual

# Product Introduction

AirDeck is an inflatable collective fall arrest system, offering fall protection up to 2.75 and 3.5m metres above ground level. Designed originally for the construction industry, AirDeck is now used in various industries from construction & logistics to aircraft maintenance and shipping.

## Testing

AirDeck has been tested to comply with the performance requirements of the PAS 59-14 safety standards for collective fall arrest soft landing systems.

## Place and Purpose of Use

AirDeck provides an immediate and short term fall protection system up to a maximum height of 2.75 metre or 3.5 metre for AirDeck Safety Layer . AirDeck is used to fill an area and create a safe landing area in the case of a fall. It can also be used in a freestanding scenario to create a dynamic fall protection area (**excluding AirDeck Original**). This system can be moved in line with work and changing risk areas.

## Safety Checks

- The layout and application for the AirDeck should be consulted with the supplier
- Before being used AirDeck should be inspected by a competent person or H&S professional before use as follows:
  - Ensuring that the units are maintaining their safe inflation level;
  - Visually examine components for any signs damage, distortion or fatigue;
  - Ensuring that all AirDeck units are securely clipped to their neighbouring unit.
    - The system should also be visually inspected at the beginning of each work session, by a competent person, to ensure that none of the components have either been removed or damaged.
    - A training course is available which will ensure that your operatives are familiar with the variety of AirDeck products
    - Any units that are deflated or have damaged clips should be identified and removed from the installation to avoid any failure in the system.
    - In non-constraint conditions there should be an defined buffer zone around the potential fall area to ensure in the event of a bounce there is no risk of the individual or item landing away from the AirDeck.

# Assembly

Before inflating the AirDeck: ensure the inflator is fully charged and ready for use, the area is free from debris, and the unit is facing upward.

1. Open the access flap and remove the screw cap. Insert the InflatorDeck nozzle and inflate until the system pressure (15mbar) is met or air begins to escape through the nozzle.



2. Once the inner liner is full ensure that the non-return valve on the inside of the valve is covering the hole thereby preventing the air from escaping.



3. Screw the cap on tightly and reseal the hook and loop flap.



**Follow steps 1-3 to inflate the next AirDeck.**

4. Once inflated clip the AirDeck together using the clips. Ensure the clips are fastened together as tight as possible to minimise the gap between the units. Continue this process until your area is covered.



**Note: Depending on which AirDeck product you are using the number of clips may differ. Be sure to use every clip available to secure each AirDeck unit to one another.**

## Additional Instructions

### Safety Cover

AirDeck with a Safety Cover follows the same initial set up as the AirDeck Original and the AirDeck Safety Lock products.

However, in addition to the outer liner clips there is an additional set of clips on the actual safety cover. These clips need to be attached to the corresponding female clips on the neighbouring AirDeck Safety Cover to cover the gaps between the individual units. Once the gaps are covered this should create a flat protective plain in the event of a fall.

### Safety Layer

AirDeck Safety Layer is a stacked version which utilises two different AirDeck products. This increases the height of the system and further reduces the fall distance. The Safety layer is made up of the Safety Lock and the Safety Cover which can be inflated as detailed previously.

To assemble the Safety Layer:

1. Inflate all the Safety lock and clip them together as previously described. This will be the base layer of the system.
2. Once you have your base layer established begin inflating and clipping the AirDeck Safety Cover. Ensure that you have clipped the safety cover to the neighbouring unit before proceeding.
3. Using the Safety lock layer as a base. Slide or lift the Safety Cover over the base layer to create the stack. Ensure that the units are positioned aligning the same way across both layers.
4. When the Safety Cover edges are flush with the Safety lock these peripheral units can be clipped together to create the Safety Layer.

## Un-assembling the AirDeck System

At the point where AirDeck is no longer required begin disassembling the system.

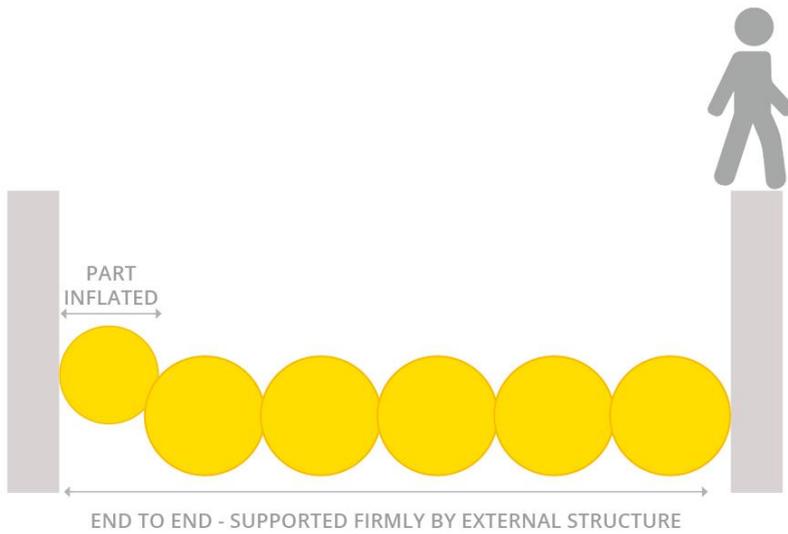
1. Unclip the AirDeck units from their neighbour. Ensure that all the clips are in good condition and replace any damaged items or remove the unit from circulation.
2. Once unclipped begin deflating the AirDeck unit by unscrewing the valve cap and push back the valve cover.
3. When the valve is open the air should passively escape through the valve.
4. Before folding the units ensure they are clean and dry
5. Once all the inner liners are deflated, begin folding and stacking the AirDeck for storage.
6. AirDeck should be stored in a dry or well ventilated area and out of direct sunlight. Sayfa Group can supply a DeckShield storage unit

Note: The standard number of AirDeck to fit on a pallet is 50. However this may vary after use and if improperly folded and stacked.

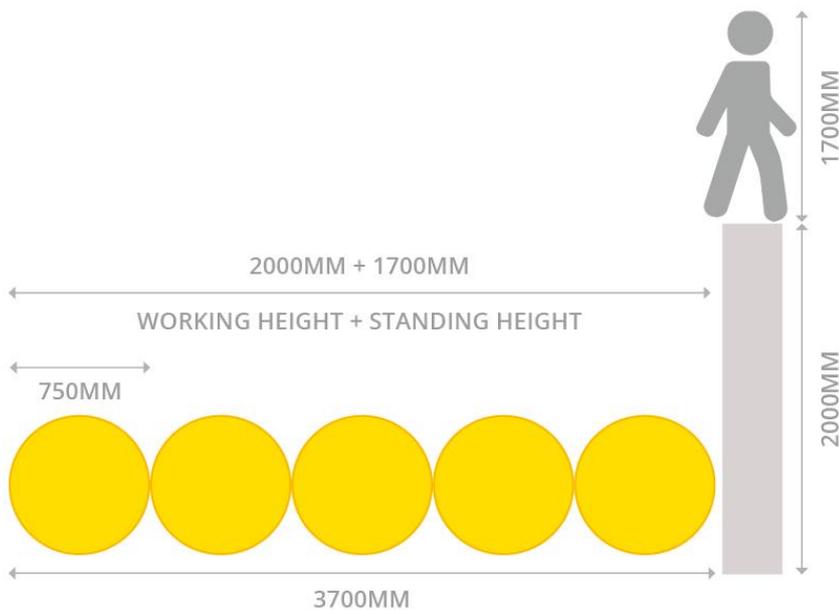
# System Layout

Understanding how to set up the AirDeck system is an important element to ensure safety. Illustrations below give a visual guide on how to set up the system in different environments:

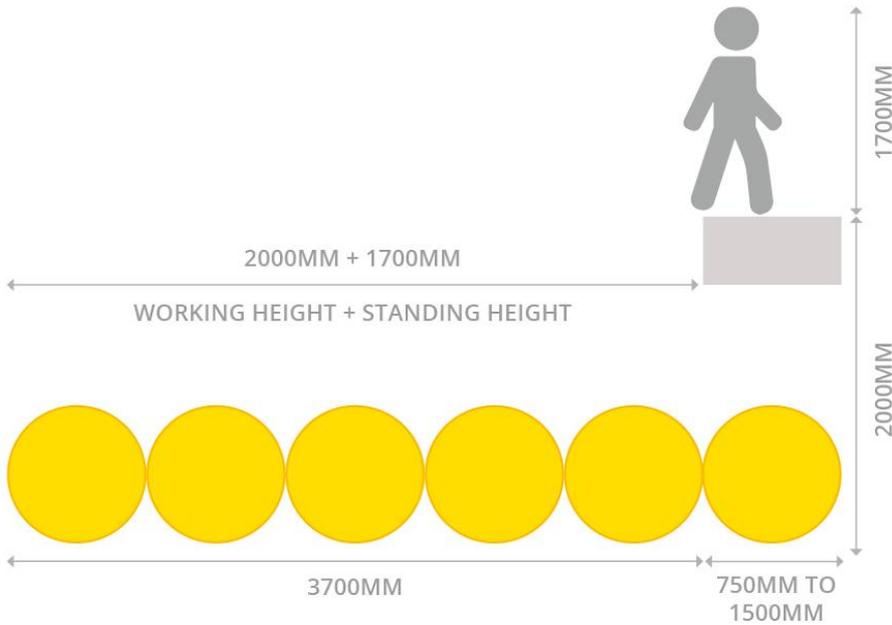
Layout within constraint - used for AirDeck Original which requires external support to be held in place and provide protection.



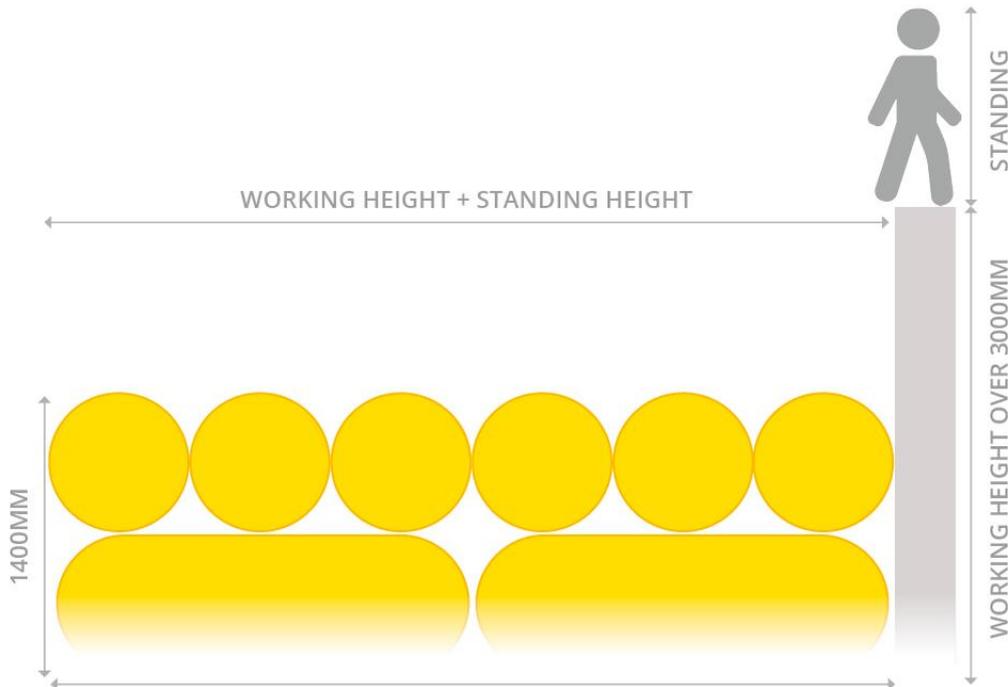
Layout in free-standing use. Only for AirDeck Safety Lock or Safety Cover products. This defines how to calculate the cover area for a safe landing.



Layout in free-standing use but with space underneath the platform – Often described as overhang. Only for AirDeck Safety Lock or Safety Cover products. Uses extra 1-2 units (750mm – 1500mm) under the work platform to provide a safer landing area.



Layout for height over 3000mm – Using AirDeck Safety Cover



# Components & Inspection

Component	Inspection criteria	Frequency
	<p><b>Inner Liner</b></p> <p>Ensure the inner liner remains inflated while the valve is covered and the screw cap is sealed.</p> <p>Inspect for any tears or damage and ensure it remains inflated.</p>	<p>Visual Inspection should be carried out before work begins.</p> <p>Following an impact or landing from a fall the liner should be removed from circulation.</p>
	<p><b>Outer Cover</b></p> <p>Check for any tears to the fabric cover.</p> <p>Ensure that the flap over the inner liner covers the entire opening. Ensuring the hook and loop seal hold the flap shut. To prevent debris from coming in contact with the inner liner.</p>	<p>Visual Inspection should be carried out before work begins.</p> <p>Following an impact from a fall a thorough inspection should be carried out.</p>

	<p><b>Valve</b></p> <p>Ensure that the valve cover locks in to place and covers the vent.</p>	<p>Inspection pre &amp; post deployment.</p> <p>Following an impact from a fall a thorough inspection should be carried out.</p>
	<p><b>InflatorDeck</b></p> <p>Ensure there is no significant damage which may alter the self-regulating system.</p>	<p>Visual inspection before use.</p>
	<p><b>Inflator</b></p> <p>Ensure the inflator and battery have not been significantly damaged.</p>	<p>Visual inspection before use.</p>



# Product Warranty

## LINER WARRANTY

5 Years or 16,000 Inflated Hours

## OUTER WARRANTY

10 Years or 16,000 Inflated  
Hours

Please refer to the Warranty Application & important Information Documents available on [www.airdecksafety.com/resources](http://www.airdecksafety.com/resources).

The biggest benefit for us is that they are so easy to use and to store – they are an ideal solution.

Site Manager - Belbroughton Developments

## GET IN TOUCH

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**AIRDECK**   
SOFT LANDING SYSTEM