

AIRDECK

Operating Manual

Product Introduction

AirDeck is a collective means of safety and defined as a soft landing system. It offers fall protection up to 2.75 and 5.5m metres above ground level. Designed originally for the construction industry, AirDeck is now used in various other industries too. These include industrial processing, manufacturing, retail and logistics as well as maintenance of vehicles for land, air and sea .

Testing

AirDeck has been independently tested to comply with the performance requirements of the PAS 59-14. Additional internal testing with anatomical test dummies has been undertaken.

Place and Purpose

AirDeck is simple and fast to deploy and can be temporary or permanent, as well as moved in line with activities and changing risk parameters. The system offers controlled and audible inflation levels which is critical to continued safe deployment. Systems layouts follow.

Essential Safety Checks

- The layout and application for the AirDeck should be consulted with the supplier
 - Before AirDeck layout and inflation should be inspected by a Competent person trained in working from height and/ or preparing risk and method statements.
- Ensure all 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, removed and replaced in the installation to avoid any failure in the system.
 - In non-constraint conditions there should be a 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 and Operation

Before inflating the AirDeck: Ensure the inflator is fully charged and ready for use, the area is free from debris, including sharp objects. Operating temperatures are -5 degree celsius to +35 degree celsius.

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



Please note: There are different nozzles for different inflators due to the air duty/volumes.

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, ensure the gasket seal is in place.



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.



Please 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 setup 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 locks 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.

Please note: Inflation pressure levels will vary with atmospheric pressure or significant fluctuations in ambient temperatures.

There should be regular checks on inflation levels as this is critical to safe functionality. Repeat steps 1 and 2 for this process.

Un-assembling the AirDeck System

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

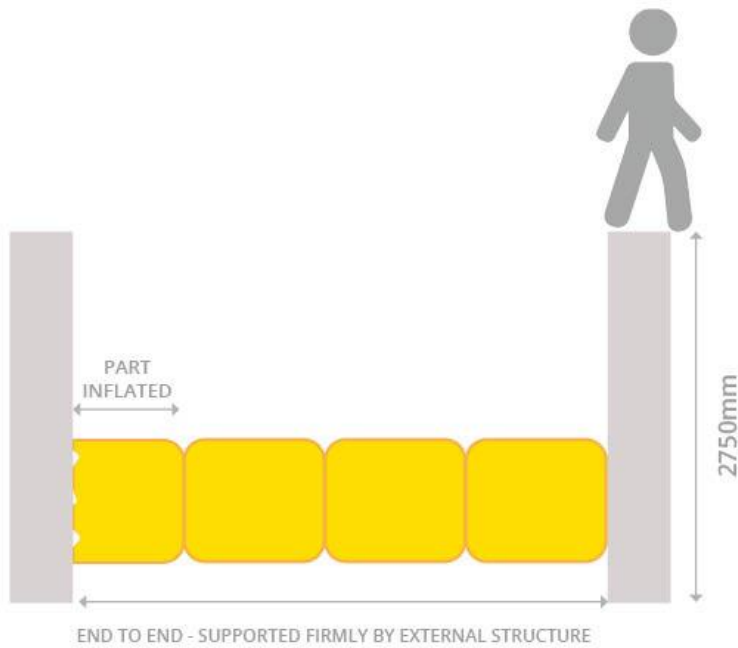
1. Unclip the AirDeck units from their neighbour. Ensure that all the clips are in good condition and replace any damaged items or remove the unit from circulation.
2. Once unclipped begin deflating the AirDeck unit by unscrewing the valve cap and pushing back the valve cover.
3. When the valve is open 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: Specifics printed on the inner.

Please 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:

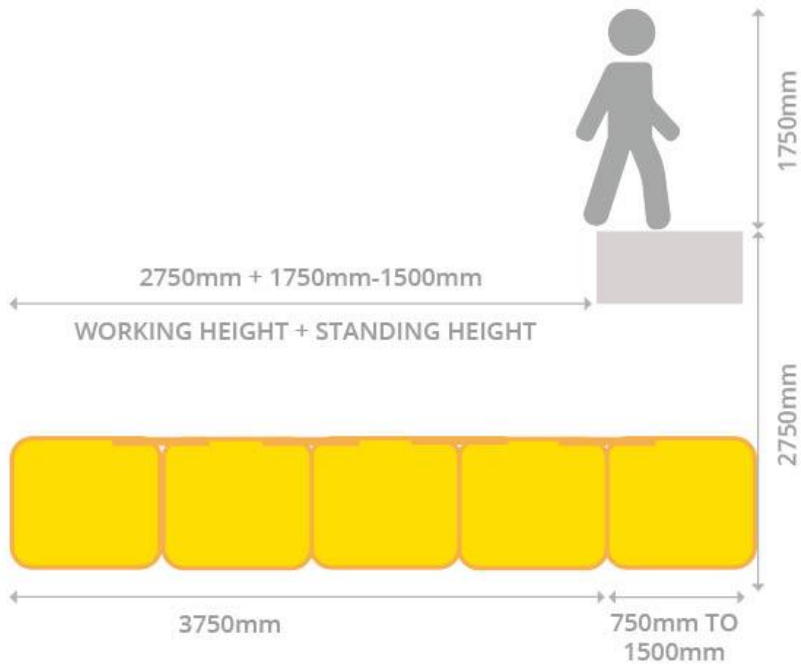
Layout within constraint - used for **AirDeck Original** which requires external support to be held in place and provide protection.



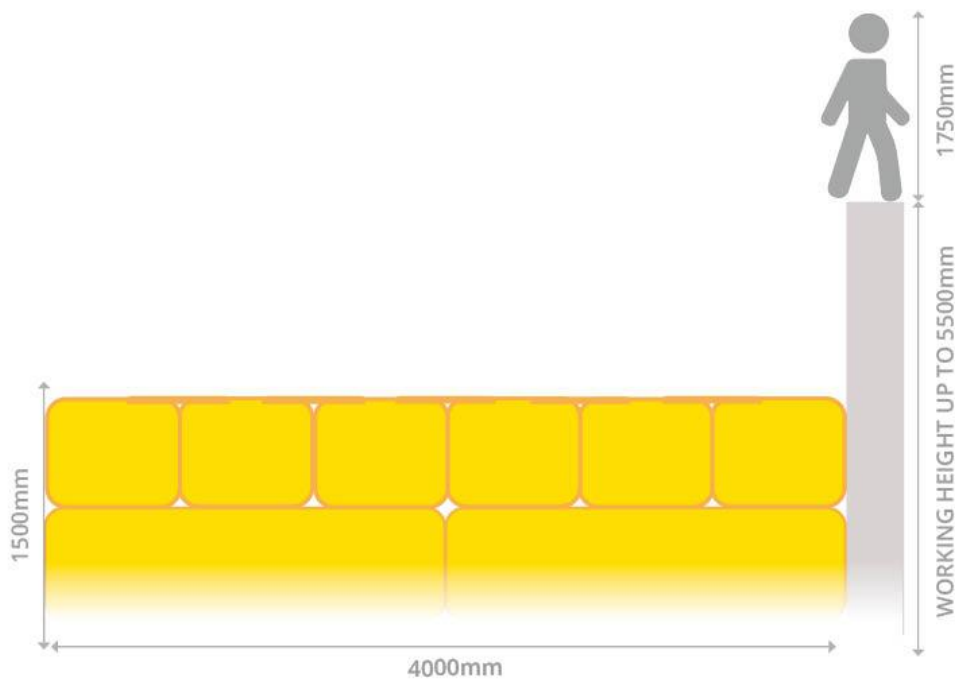
Layout in free-standing use. Only for **AirDeck Safety Lock** or **Safety Cover** products. This defines how to calculate the cover area for a safe landing.





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 up to 5500 mm – Using AirDeck Safety Layer



Components & Inspection

Component	Inspection criteria	Frequency
	<p>Inner Liner</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>Outer Cover</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>AirDeck Original- top clip AirDeck Safety Lock- top and bottom clip AirDeck Safety Cover- As above with clip cover</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>Valve and Cap</p> <p>Ensure that the valve cover locks into place and covers the vent and ensures the gasket seal remains in cap.</p>	<p>Inspection pre & post deployment.</p> <p>Following an impact from a fall a thorough inspection should be carried out.</p>
	<p>InflatorDeck</p> <p>Ensure there is no significant damage which may alter the self-regulating pressure control.</p>	<p>Visual inspection before use.</p>
	<p>Inflator</p> <p>Ensure the inflator and battery have not been significantly damaged.</p> <p>Please note the model type determines inflatorDeck type.</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.

GET IN TOUCH

AIRDECKSAFETY.COM

ENQUIRIES@AIRDECKSAFETY.COM

JUBILEE HOUSE,
3 GELDERS HALL ROAD,
SHEPSHED, LOUGHBOROUGH,
LE12 9NH

+44 1509 509 273

MADE IN BRITAIN®