

MOBI-LOK™ ANCHOR

SELF – CONTAINED VACUUM ANCHOR SYSTEMS



MOBI-LOK™



THE ULTIMATE IN FALL PROTECTION

MOBI-LOK™ ANCHOR



PRODUCT OVERVIEW

The DBI-SALA® Mobi-Lok™ Vacuum Anchor System provides a tie-off point on virtually any smooth, non-porous surface simply by flipping a switch and waiting for the dial to move into the green zone.

EASY TO USE
CARRYING HANDLE

SECURE
ANCHOR POINT

QUICK EASY-TO-
READ LABELLING

FAIL-SAFE BACKUP
SYSTEM WITH
AUDIO ALARM

SHOP AIR
QUICK-CONNECT

PAD CONFORMS
TO FUSELAGE AS
SMALL AS 182MM
DIAMETER

VISUAL VACUUM
LEVEL INDICATOR



EPDM RUBBER SEAL IS SKYDROL
RESISTANT, IT WON'T BREAKDOWN
AND WILL LAST IN A HARSH
ENVIRONMENT LEAVING NO RESIDUE



AVIATION RATED ELECTRONICS
ARE INTRINSICALLY SAFE

OPTIONAL BOTTLE ATTACHMENT
PROVIDES INCREASED PORTABILITY



FEATURES AND BENEFITS

- Fall arrest tested and approved meeting EN 795 Class B. The large footprint ensures anchor pad capacity greatly exceeds maximum arresting force.
- Lightweight design under 10kg for easy transport
- Can be installed on any surface, curved and of small diameter (min 182mm) and in any orientation. More versatility such as using overhead and on smaller aircraft.
- Version available with built-in air bottle. Faster to install as pads can be attached separately. Less equipment needs to be used and monitored. For use in situations where there is no access to shop air.
- Fail-safe back-up systems with audio alarms and vacuum level indicator. Audio alarm sounds if source of compressed air is lost or if vacuum level drops below an acceptable level.
- Alarm by-pass button for use during installation. The user does not have to endure and protect against high pitch alarms and anyone hearing the alarm instantly knows it is an issue and not an installation alarm.
- Can be used with synthetic horizontal lifeline systems. For added mobility with no risk of damage to the aircraft from the lifeline. Two and four person versions available.
- Mobi-Lok™ anchor pads utilise check valves. Maintains the vacuum if the source of compressed air is lost.
- Mobi-Lok™ anchor pads have 3 inner sealing edges. Prevents vacuum leakage.
- ATEX electrical and non electrical certification. For use in potentially explosive atmospheres.

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MOBI-LOK™ HORIZONTAL LIFELINE SYSTEMS

The Mobi-Lok™ anchors can be used as part of 2 or 4 person Horizontal Lifeline systems for use on aircraft wing and fuselage during manufacture and maintenance.

The 2 person systems uses the Sayflite™ synthetic rope system that is 8m in length. Simply connect between two or more pads to create a continuous anchor point so workers can move about more freely.

The 4 person system uses twin-lines of web, the system is adjustable to suit any length of wing, from the smallest jet to the largest Superliners. Allowing 2 workers per line and with by-passable intermediates, allows fall arrest safety for workers along the entire length of the wing without the need to detach.

Installation is quick and simple, with inbuilt tension indicator to increase accuracy and safety and can be run from either shop air or stand-alone units. The web used is highly resistant to abrasion, is non-metallic to prevent any damage to the aircraft surface during installation, and is stored on reels to allow for rapid installation and break-down. It has been thoroughly and successfully tested to all required standards after prolonged exposure to chemicals used in aviation.

The 4 main systems are available in kits for up to 30 or 40m and include the following system components:

2200192 30M SYSTEM COMPRISES:

- 2-End anchors and tensioners
- 2-Spool assemblies 30m web
- 3-Intermediate assemblies
- 1-Installation standard Mobi-Lok™
- 1-Installation lanyard
- 4-Adjustable work lanyards and shuttles

2200193 40M SYSTEM COMPRISES:

- 2-End anchors and tensioners
- 2-Spool assemblies 30m web
- 6-Intermediate assemblies
- 1-Installation standard Mobi-Lok™
- 1-Installation lanyard
- 4-Adjustable work lanyards and shuttles



SYSTEM COMPONENTS AND ACCESSORIES

MOBI-LOK™ UNITS

2200126

Mobi-Lok™ Primary Unit with bottle attachment

Mobi-Lok™ aviation industry self-contained vacuum anchor assembly with bottle attachment and carrying case.

It is powered up with a single, on-board 0.8 litre compressed gas bottle (order separately) or a large capacity detached bottle, or shop air. Unit can also power one additional secondary pad.



2200125

Mobi-Lok™ Primary Unit without bottle attachment

Mobi-Lok™ aviation industry self-contained vacuum anchor without bottle attachment for situations where shop air is always available.



2200127

Mobi-Lok™ Secondary Unit without bottle attachment

Mobi-Lok™ aviation industry self-contained vacuum anchor secondary pad for connection to a primary pad.



MOBI-LOK™ ACCESSORIES

2200085

Compressed Air Bottle

CE marked 0.8l, 20680 kPa (3000 psi)



2200086

Fill Station

To fill the compressed air bottle from a bulk tank



2200087

Scuba Adaptor

To fill gas bottle from bulk air storage tank



2200196

Fill Station Adaptor

To connect fill station to Nitrogen bottle M25 connection type BV 102



2200130

Secondary Pad Hose Assembly

15m hose to connect primary pad to secondary pad



2200409

2 Person Lifeline

8m horizontal rope 2 person lifeline for use with Mobi-Lok™ only



MOBI-LOK™ ANCHOR

TECHNICAL SPECIFICATION AND INSTALLATION REQUIREMENTS

	2200125 Mobi-Lok™ Primary Unit without bottle attachment	2200126 Mobi-Lok™ Primary Unit with bottle attachment
Main Support Assembly Material	Anodised aluminium	
Vacuum Seal Pad Material	EPDM	
Electronics Requirements	4 AA Lithium batteries	
Shop Air Requirements	80 – 150 psi	N/A
On-Board Compressed Gas Bottle Requirements	N/A	3,000 psi, 48 cubic inch
Dimensions	55 cm x 55 cm x 15 cm	
Weight	8.2kg	9.1kg
Capacity	136 kg; One person	
Surface Temperature Range	-29°C – 60°C	
Minimum Vacuum Anchor Static Capacity	15KN	
Alarm Decibel Level	105dB	
Maximum Altitude	Contact Capital Safety for usages over 3,000 ft. (915 m) above sea level.	

THE MOBI-LOK™ VACUUM ANCHORS ARE NOT SUITABLE FOR ATTACHMENT TO:

- Composite elements/Non-metal surfaces (unless authorised by aircraft manufacturer)
- Cabin and cockpit windows
- Passenger/Emergency/Cargo doors
- Maintenance/Access doors
- Areas around cut-outs which are not sufficiently supported by structural elements (stringers and frames)

- Areas outside of wingbox in-spar skin, i.e. “No Step Lines”
- Moveable control surfaces

ACCEPTABLE ATTACHMENTS:

- The system may be used on the fuselage where supported by frames and stringers, and on the wing upper surface between the spars.

SERVICING INSPECTION & MAINTENANCE

BEFORE EACH INSTALLATION

System components must be formally inspected by a competent person concentrating on visible signs of deterioration or damage. Items found to be defective must be replaced.

INSTALLED SYSTEMS

Inspection should be carried out by a competent person must be conducted after the system is installed. The system must be periodically inspected by a qualified person when left installed for an extended period, and prior to each day's use. Periodic inspections should be performed at least monthly, or more frequently when site conditions and use warrant.

If a fall occurs, the area to which the Mobi-Lok™ Self-Contained Vacuum Anchor was attached must be removed from service and inspected for structural integrity by a competent person.

ANNUAL SERVICE AND RECERTIFICATION

Mobi-Lok™ units should be returned to Capital Safety for an annual inspection and recertification (including battery replacement) once a year. Capital Safety has service centres in both Europe and North America. Provided no major repair is required the units will be returned in less than 2 weeks. Contact Capital Safety customer service department for more details and a price for recertification.



RECOMMENDED DBI-SALA® ACCESSORIES



Exofit NEX™ Harness
(1113901)



EZ Stop™ Rope Lanyard
(1245547)

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CUSTOMER SERVICES

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WHY CHOOSE CAPITAL SAFETY?

Capital Safety has over 60 years of experience developing, selling, and supporting fall protection systems around the world with the widest range of products on the market today.

Our dedicated team of Technical Support Advisors are backed by a design team of more than 20 Engineers who can advise on risk assessments, best working practices and the choice of appropriate personal protective equipment for each application. Through this team, we support our extensive network of independent Certified Installers with services ranging from application reviews, overall system design consultation, CAD drawing assistance and system engineering calculations to ensure project designs are optimized.

Our professional and highly skilled team of instructors deliver a full range of training courses. These courses are designed to fully train our Certified Installers in best practices for proper system design, engineering calculation techniques and installation methods.

All DBI-SALA® products are certified to the relevant standard for each product type and installation locations. These certifications have been carried out in conjunction with leading Notified Bodies such as SATRA, DEKRA EXAM GmbH, APAVE SUDEUROPE SAS and TUV NEL Ltd. Our technical team also participate on many of the official Standards Committees who are working to continuously refine and improve the Standards we rely on to improve worker safety.

Capital Safety's Engineering Teams are located in our facilities in Redditch UK, Banska Bystrica Slovakia, Sydney Australia and Red Wing Minnesota USA where they have access to state-of-the-art test facilities capable of performing testing that goes above and beyond current Standards requirements.

Capital Safety is working every day to provide the right solutions, safest products and most extensive services to "Ensure that every worker at height returns home safely".

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