

ROOFTOP



ANCHOR INC.

# 2018 PRODUCT SUMMARY

[WWW.ROOFTOPANCHOR.COM](http://WWW.ROOFTOPANCHOR.COM)

DESIGN

ENGINEERING

MANUFACTURING

INSTALLATION

TESTING



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# INTRODUCTION

In 2009, a team of experienced rooftop workers saw a problem: an extraordinary number of commercial rooftops lacked basic fall protection. With over 48,000 combined injuries and deaths from falls occurring annually in the United States, unsafe rooftops pose a serious threat to construction teams, window cleaners, and other workers.

That year, Rooftop Anchor was born on the premise that all rooftops and work areas should include purpose-built technology to protect workers from harm.

Today, Rooftop Anchor is an industry-leading provider of rooftop safety solutions. We are based in Heber City, Utah, and we collaborate with building owners and architects to engineer, manufacture, and install custom rooftop technology. Our engineers design systems for a variety of applications, and we are known across the country as an industry leader in OSHA compliance.

## ON FALL PROTECTION

### A SERIOUS RISK

Falls are one of the leading causes of traumatic workplace injury in the United States. In 2016, there were 384 fatalities (almost half of all work-related deaths) and a staggering 48,000 serious injuries per year due to falls. According to OSHA, individuals working at four feet or above are at risk, and the law requires that facility owners and managers provide protection for these workers.

### WHAT IS FALL PROTECTION?

Fall protection is far more than beams, anchors, and bolts. It is a complete system designed for a specific application. Rooftop Anchor provides these solutions from concept to completion, for both new buildings and retrofit projects. We work with you to develop and maintain effective fall protection systems that comply with current OSHA and ANSI regulations.



# TYPES OF FALL PROTECTION

We've divided fall protection systems into four categories based on different applications. These are:



## SUSPENDED ACCESS

### Who's it for?

Window washers and building facade maintenance workers most commonly use suspended access fall protection.

### What does it do?

Suspended access fall protection gives users safe access to the sides of buildings. It is a fall arrest system, meaning that it keeps workers safe in a situation where a fall would be inevitable.

### Examples?

A davit arm that extends from a rooftop to support a platform or bosun chair below is an example of suspended access fall protection.



## ROOFTOP ACCESS

### Who's it for?

Anyone who needs rooftop access—facility engineers, HVAC technicians, and other maintenance crews are a few examples.

### What does it do?

Rooftop access fall protection uses a harness, lanyard, and an engineered anchorage to keep workers from slipping or tripping over the edge of a roof or through holes or openings on a roof.

### Examples?

A horizontal lifeline system can be installed on a rooftop so a worker may clip into the system using a harness and lanyard. This allows them to have safe and hands-free movement along the length of the lifeline system.



### OVERHEAD FALL PROTECTION

#### Who's it for?

Overhead fall protection is typically used in interior applications as well as locations where rolling stock is loaded, tarped, and/or maintained.

#### What does it do?

Overhead fall protection minimizes the distance needed to arrest a fall and is the optimal solution to situations when there is minimal fall clearance.

#### Examples?

Inside an airplane hangar, an overhead system can provide an OSHA compliant and user-friendly fall protection system over the wings and fuselage, all while taking into consideration the challenges associated with minimal fall clearance.



### PASSIVE FALL PROTECTION

#### Who's it for?

Anyone working at height, including rooftop workers, construction workers, and maintenance crews, can be safely protected by guardrails.

#### What does it do?

A guardrail meets all of OSHA's requirements for safety at height, with no training or special equipment required.

#### Examples?

A guardrail can be fixed, modular, or portable. It can be installed along the perimeter of a roof, on a balcony, around a skylight, a roof hatch, or used at a temporary worksite.

## PRODUCT FAMILIES



**AXIS**  
ANCHOR PRODUCTS



**LINEAR**  
ACCESS SOLUTIONS



**SECTOR**  
SAFETY SYSTEMS

### **AXIS ANCHOR PRODUCTS**

Axis Anchor Products allow free pivot motion off of a single or multiple anchor points. This system may be required for suspended operations or can prevent a worker from reaching an unprotected edge while working at height. Axis Anchor Products typically require site-specific engineering.

### **LINEAR ACCESS SOLUTIONS**

Our Linear Access products provide maximum protection when lateral movement is necessary. This product category contains solutions for suspended access, rooftop access, and overhead fall protection.

### **SECTOR SAFETY SYSTEMS**

Sector Safety Systems are passive protection devices designed to set boundaries within which individuals may work safely without the need for additional training, harnesses, or rigging.

Introducing a

# REVOLUTIONARY

method to attach fall protection products to low-slope roof systems.

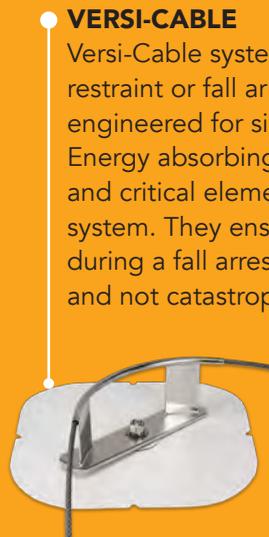
## VERSI-BASE SYSTEMS

- Fall protection anchorage with built-in flashing system
- Compatible with and accepted by all roofing manufacturers
- Alternative to heavy ballast, pitch pans, and time-consuming flashing
- Advanced engineering goes into each of our products and can provide you with a faster, simpler, and smarter way to install rooftop systems
- Installation is approximately five minutes per attachment
- Installation of the Versi-Base is consistent with traditional roof details
- Anchorages are completely watertight at roof height
- Each attachment has a brand specific solution that when properly installed allows roof warranties to continue



### VERSI-GUARD RAIL

Versi-Guard Rail system is a passive safety system that offers fall protection without the need for engineering, annual inspections, or additional personal protective equipment.



### VERSI-CABLE

Versi-Cable systems can be used as travel restraint or fall arrest systems. It can be engineered for single or multiple workers. Energy absorbing components are integral and critical elements of a horizontal lifeline system. They ensure that the loads created during a fall arrest event are manageable and not catastrophic.



### VERSI-ANCHOR

Versi-Anchors are single point anchors that allow maximum flexibility to ensure workers have uncompromised access for all aspects of roof inspection and maintenance.



### VERSI-TRAX

Versi-Trax systems offer excellent functionality through hands-free capability. The first travel restraint/fall arrest rigid rail system available that can be installed on low-slope membrane roof systems.

## CATEGORY



# AXIS ANCHOR PRODUCTS

Axis Anchor products give workers safe access to dangerous areas. This is often on rooftops or building facades, but we also install custom systems inside manufacturing facilities and other worksites. These products include anchors, rigging sleeves, davit systems, outrigger beams, and others.



AXIS X1 ROOFTOP ANCHORAGE PICTURED

WELDABLE ROOFTOP ANCHORAGES	DESCRIPTION	SIZE
 <p data-bbox="236 588 685 692"><i>Used on new steel frame construction, the Weldable Roof Anchor is field-welded to the structural beams. Web stiffeners and bracing can be applied for added strength.</i></p>	Weldable Rooftop Anchorage	12"
	Weldable Rooftop Anchorage	15"
	Weldable Rooftop Anchorage	18"
	Weldable Rooftop Anchorage	21"
	Weldable Rooftop Anchorage	24"
	Custom Weldable Rooftop Anchorage	Custom

CAST-IN-PLACE ANCHORAGES	DESCRIPTION	SIZE
 <p data-bbox="236 1112 729 1215"><i>The cast-in-place anchorage is used on concrete roofs. The embed and anchor are placed during forming before the concrete is poured for a permanent, structural anchor point.</i></p>	Cast-in-place Anchorage	12"
	Cast-in-place Anchorage	15"
	Cast-in-place Anchorage	18"
	Cast-in-place Anchorage	21"
	Cast-in-place Anchorage	24"
	Custom Cast-in-place Anchorage	Custom

BEAM-WRAP ANCHORAGE	DESCRIPTION	SIZE
 <p data-bbox="236 1657 653 1735"><i>The Beam Wrap Anchor offers a solution when an adequate sized steel beam is available for attachment.</i></p>	Beam-wrap Anchorage	12"
	Beam-wrap Anchorage	15"
	Beam-wrap Anchorage	18"
	Beam-wrap Anchorage	21"
	Beam-wrap Anchorage	24"
	Custom Beam-wrap Anchorage	Custom

EPOXY ANCHORAGE	DESCRIPTION	SIZE
 <p data-bbox="220 577 682 711"><i>Used on roof deck or floor slabs where the thickness and strength of the concrete is adequate, the Epoxy Anchor is attached with stainless steel rods and certified adhesive systems.</i></p>	Epoxy Anchorage	12"
	Epoxy Anchorage	15"
	Epoxy Anchorage	18"
	Epoxy Anchorage	21"
	Epoxy Anchorage	24"
	Custom Epoxy Anchorage	Custom

BOLT-THROUGH ANCHORAGE	DESCRIPTION	SIZE
 <p data-bbox="220 1149 719 1256"><i>The Bolt-Through Anchor is used on roof or floor slabs which are made of structural concrete. The anchor is attached through the deck with a bolt, back plate, lock washer, and nut.</i></p>	Bolt-through Anchorage	12"
	Bolt-through Anchorage	15"
	Bolt-through Anchorage	18"
	Bolt-through Anchorage	21"
	Bolt-through Anchorage	24"
	Custom Bolt-through Anchorage	Custom

WOOD ANCHORAGES	DESCRIPTION	SIZE
	Wood Deck Rooftop Anchorage	12"
	Wood Deck Rooftop Anchorage	15"
	Wood Deck Rooftop Anchorage	18"
<p data-bbox="796 1698 1202 1752"><i>Attachment requires a custom design. Anchorage for wood deck applications.</i></p>		

## FORCE MANAGEMENT ANCHOR

### DESCRIPTION



The Force Management Anchor offers tremendous versatility due to its ability to attach to many different kinds of roof deck, regardless of structure available. This anchor is classified as a deforming anchor (tipover anchor). The unique energy absorbing system inside this anchor reduces the overturning moment on the structure by over half (compared with a typical rigid anchor). Their only limitation is they cannot be used for suspended access. These are ideal for retrofit projects.

## WALL ANCHORAGES

### DESCRIPTION



Wall anchorages are available in a variety of models and capable of attaching to the same substrates that roof anchors can be affixed to.

Epoxy Wall Anchorage

Bolt-through Wall Anchorage

Beam-wrap Wall Anchorage

Weldable Wall Anchorage

Cast-in-place Rooftop Wall Anchorage

## PIPE WRAPS

### DESCRIPTION



Pipe wrap anchorages offer a solution when an adequately sized steel pipe is available for attachment.

**NEW**  
PRODUCT

## VERSI-BASE SYSTEMS

Versi-Base Systems can be installed in as little as five minutes per base and are waterproofed at roof-height, featuring integrated, manufacturer-approved flashing.

### VERSI-ANCHORAGE

Versi-Anchors are single point anchors that allow maximum flexibility to ensure workers have uncompromised access for all aspects of roof inspection and maintenance.



UNDERMOUNT ANCHORAGE	DESCRIPTION	
	<p><i>Undermount anchorages attach to the underside of a wood truss of a sloped roof and have a stainless steel loop that swivels for 360 degree access.</i></p>	

STRAP ANCHORAGE	DESCRIPTION	SIZE
	Axis Viper Strap	16"
	Axis Viper Strap 2	34"
<p><i>Viper Strap anchors are designed for sloped roof applications. They are low profile and can be used as temporary or permanent fall protection.</i></p>		

REINFORCING KIT	DESCRIPTION
	<p><i>Use these kits on open web joist framing and other conditions in which the structure is insufficient to provide the necessary strength for fall arrest events.</i></p>

RIGGING SLEEVES	DESCRIPTION
	<p><i>Rigging Sleeves are a structural conduit, and are designed to allow proper rigging configurations when building features obstruct safe access to work areas. These systems are specifically designed to accommodate building layout and worker access requirements. They can provide a solution to safely reach difficult access points such as atriums, roof overhangs, cornices, facade step-backs, interior walls, and unique or protruding architecture. A variety of models are available and are all designed to support powered platforms, single worker cage, and powered bosun chair.</i></p>

## PINNED OUTRIGGER BEAMS

### DESCRIPTION



Pinned outrigger beams utilize our Axis Anchorages instead of counterweights to secure them to the rooftop. These provide peace of mind for building owners by reducing the risk of window cleaners damaging expensive non-structural architectural appurtenances like louvers, eyebrows, sun shades, awnings, glass railing and non-loading bearing parapets. Pinned Outrigger Beams are routinely used to support rope descent systems, powered platforms, single worker cages or powered bosun chair access. On retrofit projects these are ideal because unlike davits, they typically don't require the same degree of bracing and reinforcing. These can also be conveniently and easily repositioned and stored out of view.

## DAVIT SYSTEMS

### DESCRIPTION



Davit arms are traditionally associated with suspending powered platforms from buildings, but they are also useful for rope descent systems by creating a suspension point outboard of appurtenances like louvers, eyebrows, sun shades, awnings, glass railing and non-loading bearing parapets. These systems are most frequently designed into new construction projects because they required substantial structure around the perimeter of the building. We routinely design davits to support rope descent systems, powered platforms, single worker cages and powered bosun chairs. Similar to Outrigger Beams, these can be conveniently and easily repositioned and stored out of view.

## MINI DAVIT PRODUCTS

### DESCRIPTION



Mini davit systems are lighter, smaller, and more mobile, and can be installed to access hard-to-reach areas and have the same attributes of the davits mentioned above.

## DAVIT BASES



Davit Socket



Weldable Davit Base



Bolt-through Davit Base



Beam-wrap Davit Base

## ROOFTOP ANCHOR DAVIT SYSTEM

Davit systems allow suspension points to be located away from a building so that wire cables and safety lines do not load or damage architectural features. The design team at Rooftop Anchor will work with a project's engineer to ensure the building is capable of withstanding the large loads generated by davits.

Whether on new construction or a retrofit, davit systems are being used more frequently on buildings of all heights to address protruding features on building facades such as shade louvers, eyebrows, sun shades, awnings, glass curtain walls and non-load bearing parapets.





## CATEGORY



# LINEAR ACCESS SOLUTIONS

Linear Access Solutions include rail and lifeline systems. These provide safe lateral movement for multiple workers in harnesses, platforms, cages, or bosun chairs. Here are some of the key differences between rails and lifelines:

Rail systems have an anchor point above the user that moves along a rail, and can support individual fall systems, powered platforms, cages, or bosun chairs.

- Best for low fall-clearance situations
- Monorail, Unirail, or Roofsafe rail
- Color-match them to rooftops or soffits
- Connect them to metal roofs without penetration

Lifeline systems are cables attached to engineered anchor points. This allows users to connect to the cable and move freely alongside or under it.

- Best for high fall-clearance situations
- Can be vertical or horizontal
- Can be designed for travel restraint or fall arrest

Both rail systems and lifelines provide hands-free movement for workers.

HORIZONTAL LIFELINE SYSTEM PICTURED

## ARCHITECTURAL MONORAIL

### DESCRIPTION



*These systems are specifically designed to accommodate building layout and the worker access requirements. They can provide a solution to safely reach difficult access points such as atriums, roof overhangs, cornices, facade step-backs, interior walls, and unique or protruding architecture. Architectural Monorail Systems are secure for workers, user friendly, and OSHA-compliant for your peace of mind.*

## OVERHEAD TRACK SYSTEM

### DESCRIPTION



*There are numerous overhead track systems available to meet site and use requirements, from plain track, dual track with bypass, bridge, to fold-away systems. All systems allow for maximum mobility and combine the use of advanced fall arrest systems for enhanced safety.*

## OVERHEAD LIFELINE SYSTEM

### DESCRIPTION



*Consisting of all stainless steel components, our overhead lifeline systems have the ability to free span great distances and offer users unencumbered access along the entire system.*

## VERSI-BASE SYSTEMS

**NEW  
PRODUCT**

*Versi-Base Systems can be installed in as little as five minutes per base and are waterproofed at roof-height, featuring integrated, manufacturer-approved flashing.*



### VERSI-TRAX

Versi-Trax systems offer excellent functionality through hands-free capability. The first fall restraint rigid rail system available that can be installed on low-slope roof systems.



### VERSI-CABLE

Versi-Cable systems can be used as fall arrest systems. It can be engineered for single or multiple workers. Energy absorbing components are integral and critical elements of a horizontal lifeline system. They ensure that the loads created during a fall arrest event are manageable and not catastrophic.

## HORIZONTAL LIFELINE SYSTEMS



### DESCRIPTION

*Horizontal Lifeline Systems can be used as a travel restraint or a fall arrest system. Either system can be engineered for single or multiple workers. Energy absorbing components are integral and critical elements of a horizontal life line system. They ensure that the loads created during a fall arrest event are manageable and not catastrophic.*

## ROOFSAFE RAIL



### DESCRIPTION

*An aluminum rail system designed for sloping roofs. These systems can accommodate multiple users at once and provide a non-penetrating option on standing seam and trapezoidal roof profiles. Rigid rail systems have several advantages over horizontal lifeline systems, including evenly distributed loads instead of concentrated loading in a fall arrest event. These systems can also be color-matched to the roof panels.*

## UNIRAIL SYSTEMS



### DESCRIPTION

*An aluminum rail system designed for wall or overhead applications as well as suspended application. Unirail systems may be designed for multiple simultaneous users.*

## LADDER SAFETY SYSTEMS



### DESCRIPTION

*Ladder Safety System incorporates a shuttle device to allow continuous hands free climbing and improved safety in the event of a slip or fall*



## FLEXIGUARD SYSTEMS

The FlexiGuard™ A-Frame System provides a secure anchor point on a portable structure to give workers increased coverage and protection. Depending on the configuration, this system has the capacity to provide fall protection for up to two workers and can be easily moved from job site to job site, providing safe and reliable fall protection where you need it. These systems are ANSI and OSHA compliant. DBI-SALA®

has created a proven process for developing unique solutions. Whether it's an existing or modified product, or an entirely new design, FlexiGuard™

always meets the requirements of your specific application. Each custom solution is driven by our customers' needs and is dependent on the

industry, environment and specific design constraints, including government standards. We also have numerous pre-engineered systems that may be a perfect solution to your fall protection challenge. All of our systems are extremely durable and built to last with world-class quality, materials and workmanship. They are unique solutions to unique challenges, and fall protection you can trust.



## CATEGORY



# SECTOR SAFETY SYSTEMS

Whether for temporary or permanent use, the adaptive design of Sector Safety Systems offer a variety of solutions for all kinds of applications, from unprotected roof edges, to open mechanical pits, to hazardous equipment locations or any general fall hazard. This system can stay on a rooftop indefinitely with no risk of compromising a roof membrane. Best of all, working within the safe zone created by the Sector Safety Systems requires no specific training or personal protective equipment.



## MODULAR GUARDRAIL

## DESCRIPTION



Modular Counterweighted Guardrail System (pictured)

Contoured Counterweighted Guardrail System (opposite page)

*Guard Rail Systems are a passive safety system, offering fall protection without the need for engineering, annual inspections, training or additional personal protective equipment. This system is installed along open-sided walking surfaces, roofs, terraces, balconies, stairways, ramps, and landings that expose workers to a fall of 4' or greater, making them one of the most efficient and cost-effective ways to comply with OSHA requirements.*

## PORTABLE GUARDRAIL

## DESCRIPTION



*Designed to be easily installed section-by-section, the Portable Guard Rail system quickly adapts to suit your needs during construction, around roof access points, or when temporary projects exist. The patented, cantilevered base uses proprietary geometry to achieve maximum safety with minimal weight, and disperses weight across a large footprint to ensure that a roof's membrane is never compromised.*



## COUNTERWEIGHTED GUARDRAIL BASE

- Units nest together for easy transportation or shipping
- Bearing pressure is 1.3 psi per base
- Exceeds OSHA safety standards
- Non-penetrating design
- Contour design prevents water ponding or trapped debris

**NEW**  
PRODUCT

## VERSI-BASE SYSTEMS

*Versi-Base Systems can be installed in as little as five minutes per base and are waterproofed at roof-height, featuring integrated, manufacturer-approved flashing.*

### VERSI-GUARDRAIL

The Versi-Guard Rail system is a passive safety system that offers fall protection without the need for engineering, annual inspections, or additional personal protective equipment.



## ROOF HATCH RAILING



## DESCRIPTION

*This four-sided rail system encloses open areas to prevent falls to a lower level. It features ergonomic hand rails and a self-closing gate with no-pinch hinges. It includes ladder extension rails that hold steady in the event of a slip.*

## SKYLIGHT SCREEN



## DESCRIPTION

*The Skylight Screen is a non-penetrating wire cage that prevents workers from stepping on or falling through a skylight.*

## ROOFTOP NON-PENETRATING SUPPORT SYSTEMS



### SUREFOOT CROSSOVERS

Surefoot Bridge Crossovers span across pipes, ducts, expansion joints, elevation changes, and other potential obstructions with an engineered stair access. Slip resistant interlock planking is used on all walking surfaces.



### SERVICE PLATFORM

Surefoot Service Platforms offer secure, elevated access to equipment in almost any setting.



### RAMPS

Surefoot Ramps offer solutions for wheeled access to areas previously blocked by rooftop pipes, structural gaps, and minor elevation changes, allowing for heavy items to be rolled in or out for placement or service.

## SERVICES

Rooftop Anchor doesn't just sell equipment. We work with customers from concept to completion to meet their specific needs. As your full-service fall protection partner, we provide these services:

**DESIGN:** Our engineering team provides complimentary design services to specify proper fall protection systems for your project. We work regularly with architects to incorporate code-compliant solutions into structural drawings.

**MANUFACTURING:** Our products are created at our state-of-the-art plant in Heber City, Utah. Each of our systems is tested and certified by professional engineers, and guaranteed to meet or exceed OSHA, ANSI, and ASME standards.

**INSTALLATION:** Rooftop Anchor's certified specialists will work with your project manager onsite to install anything from our line of fall protection systems. Our crew brings years of experience in both new construction and retrofit projects.

**TESTING AND CERTIFICATION:** Our engineers provide initial testing and certification of rooftop systems to make your building compliant with the latest codes and standards.

**ANNUAL INSPECTIONS:** Our annual inspection service keeps your fall protection systems code-compliant year after year. Our team of qualified experts ensures compliance with all OSHA inspection requirements and to keep product warranties in effect.

**TRAINING:** Worker and contractor training is required by law, and we are committed to assisting our customers with user safety. The Rooftop Anchor team keeps current on all regulatory changes, and we gladly provide training to the users of our products.





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