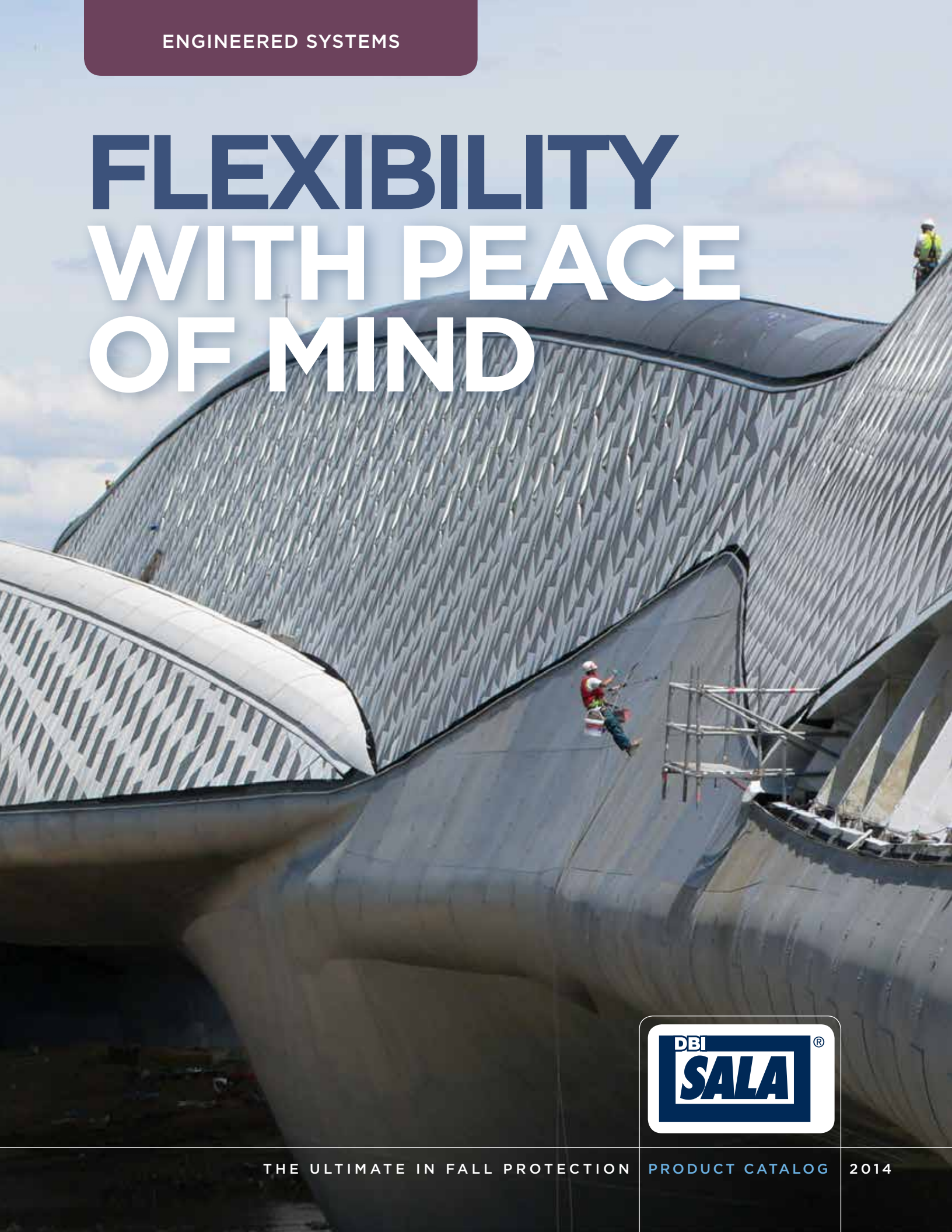
ENGINEERED SYSTEMS

FLEXIBILITY WITH PEACE OF MIND



DBI SALA®

THE ULTIMATE IN FALL PROTECTION | PRODUCT CATALOG | 2014

ENGINEERED SYSTEMS

MEETING THE NEEDS OF TODAY'S CHANGING WORK ENVIRONMENT

Our comprehensive range of fall arrest and fall protection systems offer fully compliant, practical solutions for structures of all types in all industries. Our mission to deliver quality service, training and support for our customers has earned Capital Safety a deserved reputation for excellence around the world.

Capital Safety's certified, trained specialists provide industry-leading installation and training services throughout equipment life to help make your workers' safety a simple guarantee.

To learn more about engineered systems and more, visit www.captitalsafety.com.

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THE ULTIMATE IN MODULAR SYSTEM DESIGN

ENSURE SAFETY AND STRUCTURAL INTEGRITY ON OLD AND NEW BUILDINGS

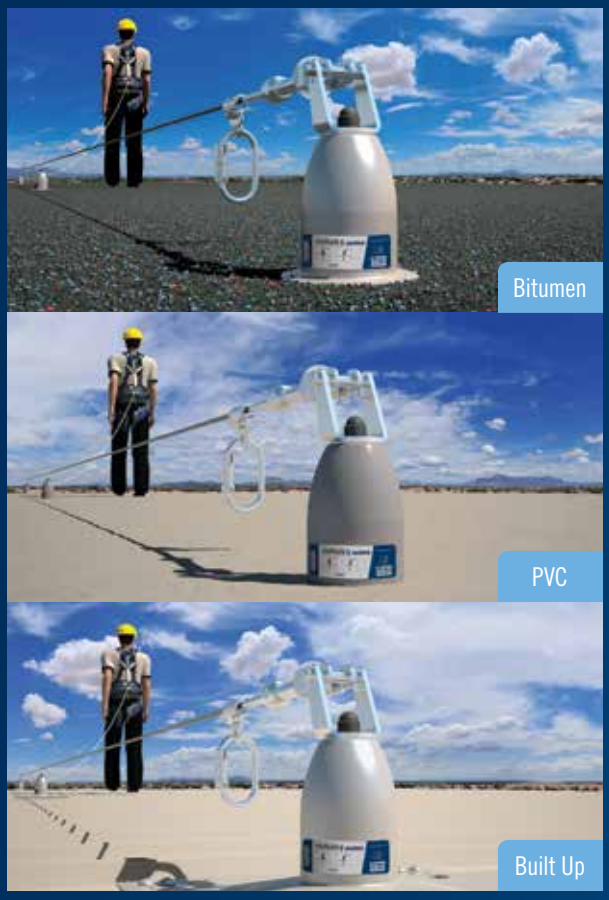
- System activates and absorbs energy no matter which direction the load is applied, providing total freedom and flexibility in system design
- Unique energy absorption reduces overturning movement on the fasteners by 50%, requiring fewer fasteners and reducing the number of roof penetrations to save time and money during installations
- Multiple fastener options reduce the complexity of specification and in turn, maximize inventory to ensure speedy delivery

Conforms to EN 795, OSHA, ANSI, AS/NZS standards and has been tested to both EN795 Class A and C standards

FEATURES AND BENEFITS

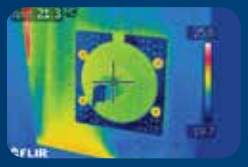
- **The RoofSafe™ Anchor** is multi-directional and can activate and absorb energy no matter which orientation the load is applied, providing total freedom and flexibility in system design.
- **The unique energy absorbing system** inside the RoofSafe™ Anchor reduces the overturning movement on the bolts by half, enabling the use of fewer fasteners in many circumstances. This reduces the number of roof penetrations and saves time and money during installations.
- **The toggle fixing method** for flat roofing systems speeds up installation time and reduces thermal bridging, reducing heat loss from a building. Both of these features save time and money for the customer.
- **The RoofSafe™ Anchor** utilizes marine grade alloys in its design to reduce the overall weight and save shipping costs.
- **The RoofSafe™ Anchor** is modular in design, taking less space to pack and ship. In the unlikely event that the anchor is deployed, it is possible to remove the top module and replace it with a new one.
- **The RoofSafe™ Anchor** has been designed so a vertical pull test to 1,125 lbs. (5kN) can be applied without affecting the anchors integrity. This enables annual test and verification of its structural integrity, ensuring compliance and peace of mind.
- **The base plate designs** incorporate multiple attachment options to reduce the complexity of specification to maximize inventory and speedy delivery.
- **The RoofSafe™ Anchor** for flat roofing systems has weather proof design to ensure the integrity of the building.
- **The RoofSafe™ Anchor** compliments modern building design, as well as older buildings, enabling compliance and peace of mind no matter the type of project.
- **The RoofSafe™ Cable System** uses high quality 316 stainless steel cable to offer excellent freedom of movement to navigate corners and building contours.
- **The system spans up to 40 ft. (12m)** between intermediate supports, minimizing roof penetrations.
- **Electro-polished components** provides long-term corrosion resistance.*
- **System performance** can be calculated using custom design software providing assured levels of safety. The system maintains a minimum safety factor of two for multiple users.
- **The Uni 8™ evolution™ Traveler** can be used on either side of the line without removing and reattaching it allowing the user flexibility to move around the system.
- **The RoofSafe™ Anchor and Cable System** conforms to EN 795, OSHA, AS/NZ, standards and has been tested to both EN795 Class A and C Standards.

** Some aggressive environments can cause corrosion and discoloration of stainless steel.*




Standing Seam Solution


Toggle Fixing Method


Reduced Thermal Bridging

APPLICATIONS OVERVIEW

The RoofSafe™ Anchor can be used to facilitate the installation of a horizontal lifeline system to allow continuous uninterrupted access to all areas of a roof or alternatively can be used as a single point of anchor for maintenance tasks in localized areas.

Roofs are being designed to utilize lighter materials and take advantage of new technologies. The advanced design of the RoofSafe™ Anchor allows customers to benefit from modern roofing design while ensuring safety and structural integrity.

Additionally, as the desire to comply with health and safety regulations increases, the need for safety solutions on older building and structures increases. The RoofSafe™ Anchor and Cable System is ideally suited for installation on an older building that requires a fall protection system.

KEY COMPONENTS

Choose and purchase the baseplate, module and top attachment separately for true flexibility with any roof type or membrane application.

MODULES

END/CORNER MODULES

The RoofSafe™ Anchor allows for users to attach to the anchor in a Horizontal Lifeline System application for fall arrest and work restraint purposes. The RoofSafe™ Anchor will only be used in the end/corner position of a Horizontal Lifeline System. The lifeline is supported at regular intervals with the Intermediate Anchor. (Please refer to typical system layout diagram).

ROOFSAFE™ ANCHOR
Module End/Corner Standing Seam

ROOFSAFE™ ANCHOR
Module Intermediate Standing Seam

ROOFSAFE™ ANCHOR
Module End/Corner Bitumen

ROOFSAFE™ ANCHOR
Module Intermediate Bitumen

ROOFSAFE™ ANCHOR
Module End/Corner All Membrane

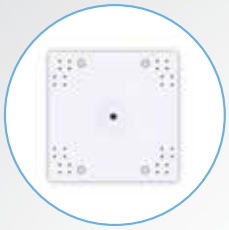
ROOFSAFE™ ANCHOR
Module Intermediate All Membrane

ROOFSAFE™ ANCHOR
Module End/Corner PVC

ROOFSAFE™ ANCHOR
Module Intermediate PVC

BASE PLATES

The base plate designs incorporate several fixing holes to allow the same plate to be fitted on different roof types.

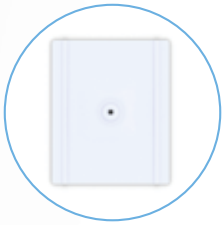


ROOFSAFE™ ANCHOR BASEPLATE
16" x 16" (405mm x 405mm)
with Holes

ROOFSAFE™ ANCHOR BASEPLATE
16" x 16" (405mm x 405mm)
with no Holes

ROOFSAFE™ ANCHOR BASEPLATE
14" x 17" (350mm x 440mm)
with Holes

ROOFSAFE™ ANCHOR BASEPLATE
14" x 17" (350mm x 440mm)
with no Holes



ROOFSAFE™ ANCHOR BASEPLATE
22" x 18" (550mm x 450mm)
with no Holes

SYSTEM COMPONENTS

A range of system components are available including free-flowing intermediate guides and corner attachments, providing complete hands-free movement across a Horizontal Lifeline System.

ROOFSAFE™ ANCHOR
System Eye & Pin

ROOFSAFE™ ANCHOR
90° Corner

ROOFSAFE™ ANCHOR
45° Corner

ROOFSAFE™ ANCHOR
Single Point Eye
3,600 lbs. (16kN) rated

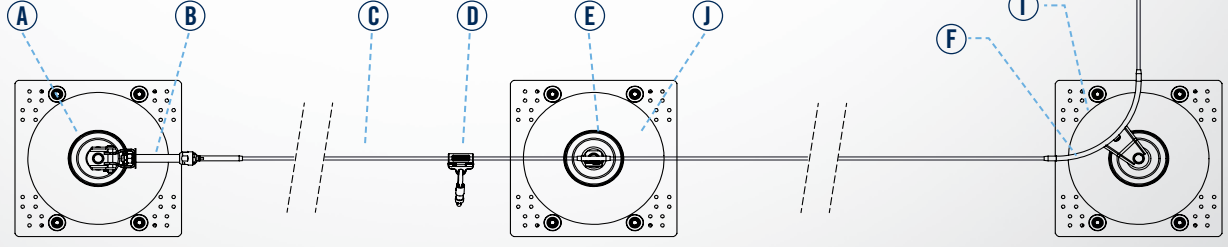
ROOFSAFE™ ANCHOR
Intermediate Guide

ROOFSAFE™ ANCHOR
Variable Intermediate Guide

INSTALLATION EXAMPLE

- **A** ROOFSAFE™ ANCHOR SYSTEM EYE & PIN
- **B** 0.31" (8mm) HEX SWAGE TENSIONER
- **C** 0.31" (8mm) 7 X 7 SS CABLE PER FOOT
- **D** 0.31" (8mm) UNIGRAB & CARABINER
- **E** ROOFSAFE™ ANCHOR INTERMEDIATE GUIDE
- **F** ROOFSAFE™ ANCHOR 90° CORNER
- **G** 0.31" (8mm) HEX SWAGE TOGGLE
- **H** ROOFSAFE™ ANCHOR BASEPLATE 16" X 16" (405mm X 405mm) WITH HOLES
- **I** ROOFSAFE™ ANCHOR MODULE END / CORNER BITUMEN
- **J** ROOFSAFE™ ANCHOR MODULE INTERMEDIATE BITUMEN

Fasteners for fixing to the structure are not supplied



TRAVELERS

UNI 8™ EVOLUTION™ TRAVELER

UNI 8™ UNIGRAB

END FIXINGS

UNI 8™ TENSIONER

UNI 8™ 0.31" (8mm) HEX SWAGE TOGGLE

UNI 8™ 0.31" (8mm) HEX SWAGE JOINER

FASTENERS

A range of fasteners is available allowing the RoofSafe™ Anchor to be installed on a wide range of roof types.

BUILT UP & COMPOSITE INSULATED TOGGLE BOLTS

STANDING SEAM CLAMPS

0.30" (7.7mm) RIVETS FOR BUILT UP METAL DECKS ROOFS

BUILT UP CONCRETE BOLTS

GREAT AESTHETICS. UNCOMPROMISING SAFETY.

PROVIDE SAFE, FUNCTIONAL FALL PROTECTION

with the only DIRECT-TO-ROOF RAIL SYSTEM that can facilitate changes in direction and roof slopes

- Low-profile and discrete design provide an unobtrusive safety anchorage solution for aesthetic appeal
- Versatile across built-up and composite metal pitched roof systems and a variety of standing seam roof systems
- Designed to safely facilitate roof inspections, routine maintenance, gutter cleaning, façade access, access to roof plant and any number of other roof top work procedures

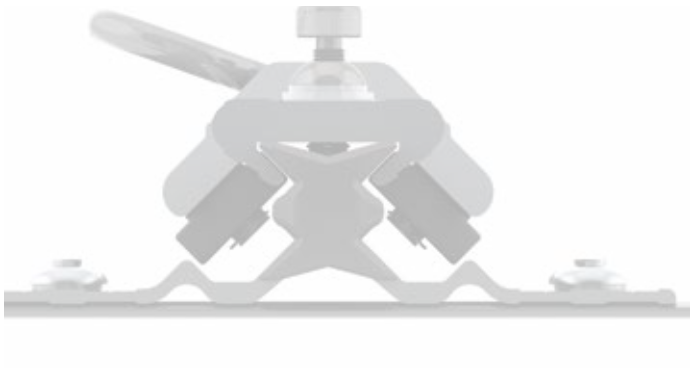
Conforms with International Fall Protection Standards including EN795, OSHA and AS/NZS

KEY FEATURES

- **The only direct-to-roof rail system** that can facilitate changes in direction and roof slopes, ensuring safe roof access where it is needed
- **Allows multiple users** to execute more complex maintenance tasks such as suspended rope access work in an efficient matter
- **Even load distribution** ensures that even if one user falls, the integrity of the roof system will not be compromised
- **Solid design ensures no deflection or unnecessary loading** of anchor points during use, giving the user complete confidence even on roof pitches greater than 15°
- **Four wheel attachment carriage** runs effortlessly along the extruded aluminium rail, providing user-friendly ease of use
- **Lightweight modular system** comes in 10 foot (3 meter) sections that are easy to transport and handle on site

COMPREHENSIVE PROTECTION

TOP QUALITY

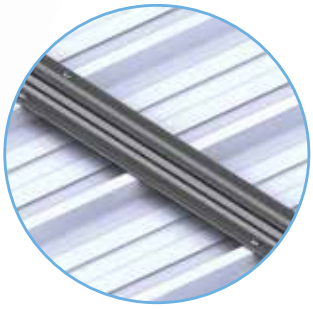


STANDING SEAM INSTALLATION

ELIMINATES HAZARDS SUCH AS:

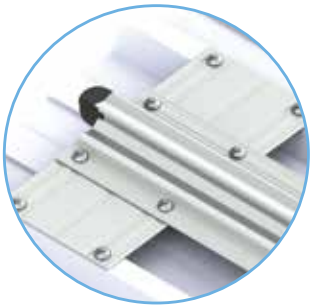
- Cable fretting
- Cable tension
- Cable deflections
- Accidental roof anchor deployment
- Passing of intermediate cable supports
- Roof sheet abrasion
- Roof traversing

KEY COMPONENTS



RAIL PROFILE

The one piece base plate's unique profile facilitates ease of installation and directs water away from fixing points. Each length is joined with a spigot pin to provide additional strength and to help with alignment. Standard lengths is 10 feet (3 meters).



SPREADER PLATES

The spreader plates incorporate the same fixing features as the base plate and facilitate attachment of the system 'upslope' to a variety of wider roof profiles.

CORNERS

The RoofSafe™ System is available with 90° and 45° corners as standard and ridge and valley rail joints can be formed to allow continuous attachment.

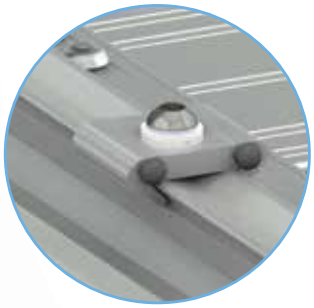
PRODUCT INTEGRATION

Successful safety system design requires early input from trained safety professionals. Capital Safety's team is on hand to provide you with design input, identifying system layouts, fixing detail, structural suitability and discussing how the system will be utilized. This is an important feature of Capital Safety's product offering and it ensures that system designs are both safe and practical, providing complete functionality for future users.

For architects, Capital Safety can provide technical drawings and specification details to help with the inclusion of its products in building specification documents and tenders.

Local design assistance, site visits, installation and training are facilitated by our network of Certified Installers, all of whom are trained and audited by Capital Safety to ensure our end user customers receive the best possible service.

SELF RETRACTING LIFELINES

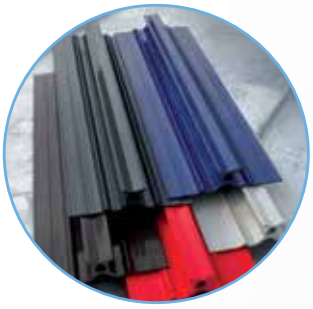


END STOPS

Stops incorporated at each end of the system provide a buffer for the attachment carriages and keep users a safe distance from the roof edge during use.

ATTACHMENT CARRIAGE

The four wheel carriage can be left permanently on the rail or removed for storage. A parking facility makes it ideal for work positioning activities on steeper roofs. The carriage's design allows it to glide easily along the system no matter what the angle of take off.



A CHOICE OF FINISHES

All components are made from 6000 series aluminum alloy and can be anodized or powder-coated to provide additional resistance to environmental conditions or to enhance the product's aesthetic appeal. All stainless steel parts are manufactured from grade 316 or higher for good corrosion resistance.

LOW-PROFILE SYSTEM WITH HIGH IMPACT

PROVIDE MAXIMUM FALL PROTECTION

with this unique, permanent system for telescoping jet bridges

- Allows telescoping jet bridges to expand and collapse with no need to remove or retention the system
- Quality extruded aluminium rail system blends into structures and complements their aesthetics, virtually hidden and unnoticeable from the ground
- Rail shuttle glides effortlessly along the rail to provide superior hands-free and continuous fall protection
- Provides fall protection for up to three users

Conforms to OSHA and ANSI Standards

KEY FEATURES

- **Simple and Easy to Install:** Pre-drilled holes strategically located along the rail provide fast layout and installation — system also includes weather sealing for peace of mind.
- **Low Profile Rail Design:** Rail will pass under jet bridge structure when it is expanded and collapsed, so there is no need to remove or retention the system.
- **i-SAFE™ 3.1 Equipped:** The most advanced way to track safety equipment and manage your safety inspection program.
- **High Capacity Shock Absorbing Lanyard Force2™:** Ideal for tying off at your feet, twin-leg design provides continuous protection and mobility when moving from one jet bridge section to another.
- **Multi-Purpose / Person Design:** Versatile system can be used by one person per jet bridge section for fall arrest, or three people per section for fall restraint — 310 lb. (140.61 kg) per person capacity.
- **High Performance Rail Shuttle:** Smooth operation with ultra-efficient movement along the rail provides hands-free protection.

LO-PROFILE RAIL

i-SAFE™ 3.1 EQUIPPED

HIGH CAPACITY SHOCK ABSORBING LANYARD FORCE2™

SPECIFICALLY DESIGNED FOR JET BRIDGES

ROOFSAFE™ LO-PROFILE RAIL SYSTEM

COMPLETE KITS

AVAILABLE KITS

58 ft. (17.7 m) Collapsed / 110 ft. (33.5 m) Expanded

60 ft. (18.3 m) Collapsed /119 ft. (36.3 m) Expanded

68 ft. (20.7 m) Collapsed / 141 ft. (43 m) Expanded

COMPONENTS

AVAILABLE COMPONENTS

Lo-profile rail — 16 ft. (4.9 m)

Blind rivet — 1/4 X 3/8 (6.35 mm x 9.53 mm), HSS

Rail joint assembly

Front end stop assembly

Back end stop assembly

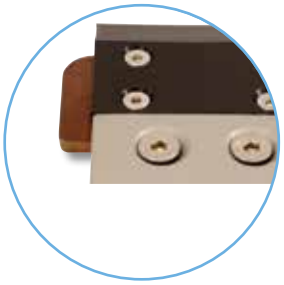
Weather sealing tape

Installation kit

Lo-profile rail system label

LO-PROFILE RAIL

RAIL JOINT ASSEMBLY



FRONT END STOP ASSEMBLY

BACK END STOP ASSEMBLY

SLEEK. DISCREET. SMOOTH.

RoofSafe™ Lo-Profile Rail is a quality extruded aluminum rail system, that provides a high level of user safety combined with an aesthetically pleasing appearance. Specifically designed for use on jet bridges, this system permanently attaches and allows the jet bridge to expand and collapse with no need to remove or retention.

FALL PROTECTION WITH FREEDOM

ENSURE MAXIMUM SAFETY AND COMPLIANCE without sacrificing freedom of movement

- Designed to work well on modern building projects, refurbishments and can also be used for a wide range of industrial safety applications
- Durable, high-performing design ensures long life expectancy and low cost of ownership
- Free-flowing bypass capability offers excellent functionality and freedom for workers

Conforms to EN 795, OSHA, ANSI, AS/NZS standards and has been tested to meet EN 795 Class C standard

FEATURES AND BENEFITS

- **The Uni 8™ System's** versatile design and multiple mounting options can be installed to a wide variety of structures.
- **A broad range of mounting bracket options** allows navigation of corners and building contours while offering excellent functionality through it's free flowing bypass capability.
- **The Uni 8™ evolution™ Traveler** can be used on either side of the line without removing and reattaching it allowing the user flexibility to move around the system.
- **In-line energy absorbers** reduces load transfer to the structure in the event of a fall.
- **The Uni 8™ System** can span up to 40' (12m) between support brackets.
- **The single 0.31" (8mm) cable** provides a discreet and unobtrusive solution to fall protection.
- **The system can support multiple workers,** up to 310 lbs (140kg) each, allowing a team of people to carry out tasks at height.
- **Computer software** calculates system performance to ensure system designs meet customer needs and are safe.
- **Minimal moving parts** and high grade materials ensure long life expectancy, low cost of ownership and add up to a sound investment.
- **Electro-polished stainless steel (316) components** provide long-term corrosion resistance.*
- **Tested to EN795 class C** and meets the requirements of AS/NZS and is OSHA compliant.

* *Some aggressive environments can cause corrosion and discoloration of stainless steel.*

APPLICATIONS OVERVIEW

The Uni 8™ System is well suited to modern building projects, refurbishments and can also be used for a wide range of industrial safety applications.

Uni 8™ offers excellent functionality through it's free flowing bypass capability and can navigate corners and contours in building designs.

UNI 8™ SYSTEM LAYOUT

UNIGRAB ATTACHMENT DEVICE

Weighs only 0.64 lbs. (0.29 kg) and fits in the palm of your hand, can be attached at any point along the system, 316 stainless steel, electropolished and serial numbered

UNI 8™ SWAGE TOGGLES

316 stainless steel

WALL ANCHOR PLATE

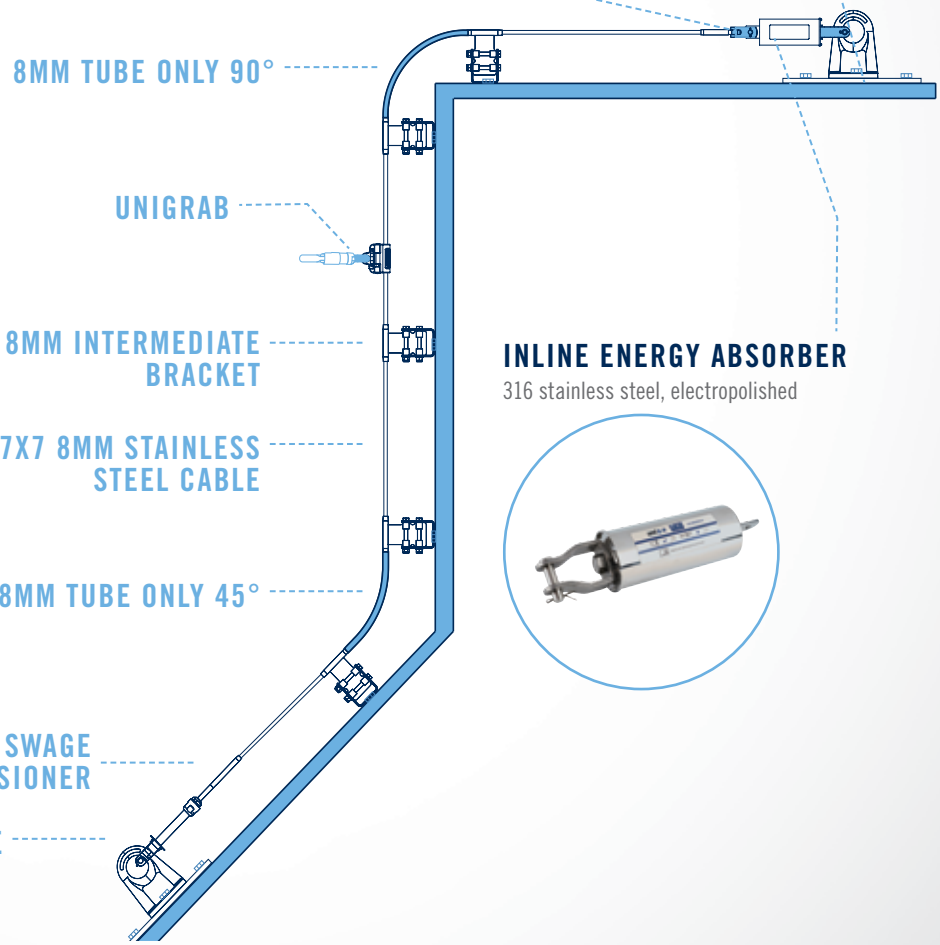
316 stainless steel, electropolished, 11,240 lbs. (50 kN) min breaking strength

UNI 8™ INTERMEDIATE BRACKET

316 stainless steel, electropolished — variable positioning available to suit a range of applications, reorientates load in the event of a fall

8MM (5/16") 7X7 316 STAINLESS STEEL CABLE

Min breaking strength 8,540 lbs. (38 kN)



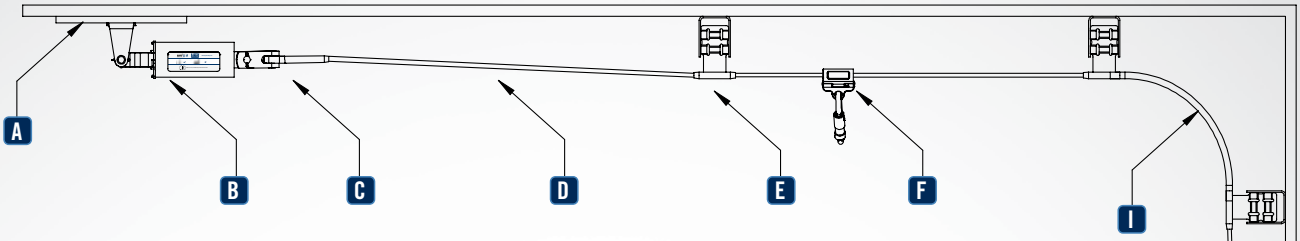
INLINE ENERGY ABSORBER

316 stainless steel, electropolished

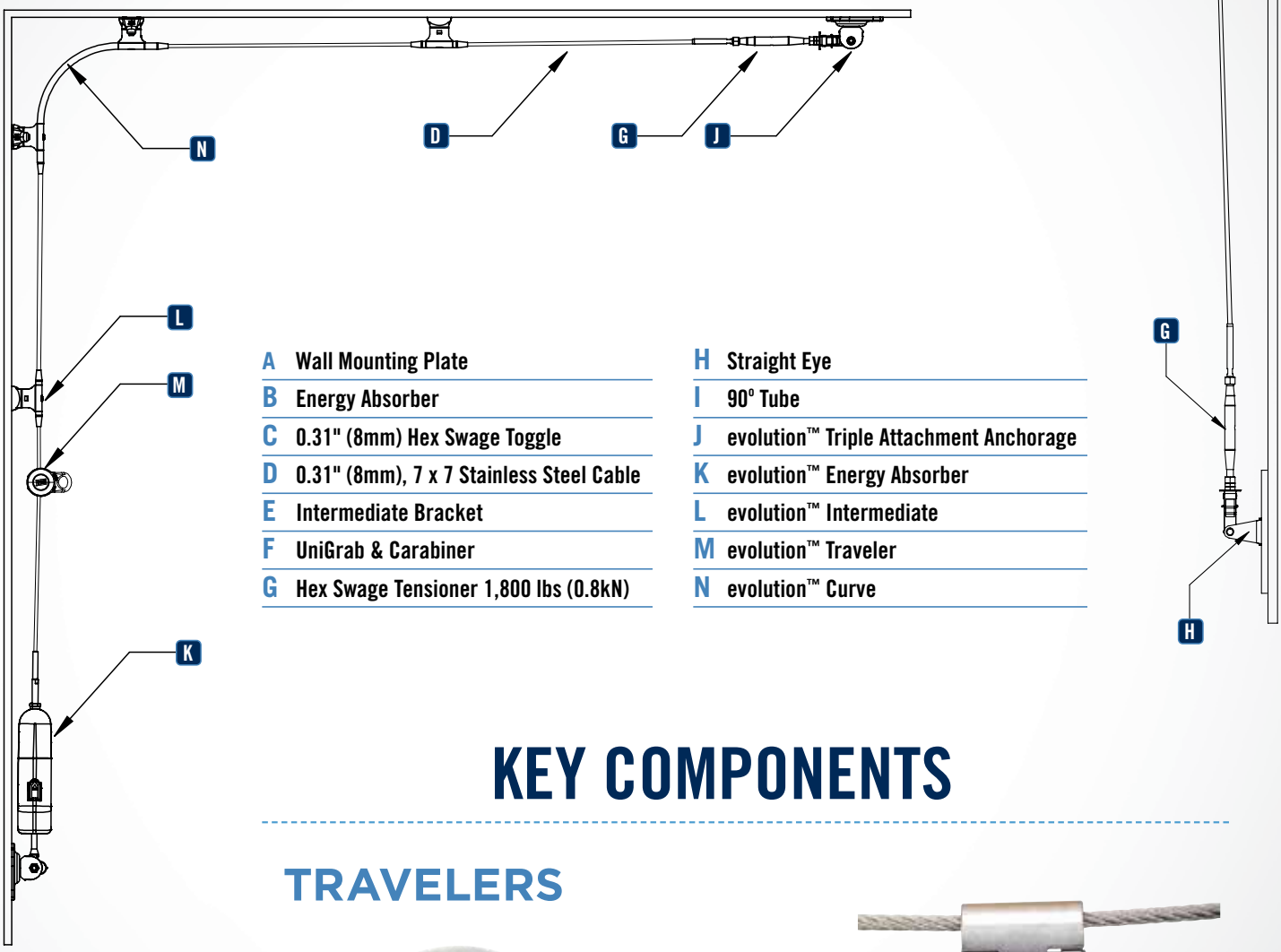
Fasteners for fixing to the structure are not supplied. For more detailed component information, refer to the individual datasheets.

INSTALLATION EXAMPLES

Typical Uni 8™ System



Typical Uni 8™ evolution™ System



A	Wall Mounting Plate	H	Straight Eye
B	Energy Absorber	I	90° Tube
C	0.31" (8mm) Hex Swage Toggle	J	evolution™ Triple Attachment Anchorage
D	0.31" (8mm), 7 x 7 Stainless Steel Cable	K	evolution™ Energy Absorber
E	Intermediate Bracket	L	evolution™ Intermediate
F	UniGrab & Carabiner	M	evolution™ Traveler
G	Hex Swage Tensioner 1,800 lbs (0.8kN)	N	evolution™ Curve

KEY COMPONENTS

TRAVELERS

UNI 8™ EVOLUTION™ TRAVELER

UNI 8™ UNIGRAB

KEY COMPONENTS

END FIXINGS

UNI 8™ ENERGY ABSORBER

UNI 8™ EVOLUTION™ HIGH CAPACITY ENERGY ABSORBER

UNI 8™ TENSIONER

UNI 8™ 0.31" (8mm) HEX SWAGE TOGGLE

UNI 8™ 0.31" (8mm) HEX JOINER

UNI 8™ WALL MOUNTING PLATE

END FIXINGS

UNI 8™ STRAIGHT EYE

UNI 8™ EVOLUTION™ TRIPLE ARTICULATED ANCHORAGE POINT

UNI 8™ EVOLUTION™ MONO ATTACHMENT ANCHORAGE

BRACKETS

UNI 8™ INTERMEDIATE BRACKET

UNI 8™ VARIABLE BRACKET

BRACKETS

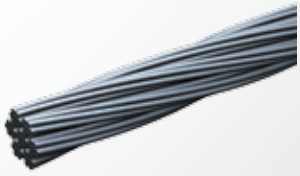
UNI 8™ 90° TUBE UNI 8™ 45° TUBE

UNI 8™ EVOLUTION™ SHORT CURVE

UNI 8™ EVOLUTION™ INTERMEDIATE BRACKET

UNI 8™ EVOLUTION™ CURVE

CABLE



0.31" (8mm), 7 X 7 STAINLESS STEEL CABLE

UNI8™ SYSTEM COMPONENT COMPATIBILITY

In the Uni 8™ System there are two Traveler options. The table below shows which components can and cannot be used with each Traveler. Full details of component compatibility can be found in the Uni 8™ technical manual.

		Curved System	Straight System
			
		Uni 8™ evolution™ Traveler	Uni 8™ UniGrab
Intermediate Bracket		✓	✓
45° Tube		✓	✓
90° Tube		✓	✓
evolution™ Intermediate		✓	✗
evolution™ Curve		✓	✗
evolution™ Short Curve		✓	✗
evolution™ Energy Absorber		✓	✓
Energy Absorber		✓	✓
Tensioner		✓	✓
evolution™ Triple Articulated Anchorage Point		✓	✓
evolution™ Mono Attachment Anchorage		✓	✓

MAXIMUM SAFETY WITH MAXIMUM FREEDOM

ENSURE COMPLETE FREEDOM OF TRAVEL AND MOVEMENT WITH THIS SINGLE OR MULTI-SPAN SYSTEM

- Strong intermediate cable supports allow the system to span greater distances for long bay work areas and permit free passage of the attachment carriage
- Designed to protect workers even with changes in weather, fragile roof elements, slips and trips, wind, steep inclines and slippery surfaces
- Developed to meet the needs of transport and industrial customers including trucks, trains and aircraft, crane walkways and loading bays

Conforms to EN 795, OSHA, ANSI, AS/NZS standards and has been tested to meet EN 795 Class C standard

FEATURES AND BENEFITS

- **The Uni 8™** overhead Traveler passes freely over intermediate brackets ensuring complete freedom of travel and movement for the user.
- **Sealed bearings** in the carriage wheels of the Uni 8™ overhead Traveler reduce the need for maintenance.
- **The Uni 8™ evolution™ Traveler** can be used as an alternative Traveler for systems with corners or when there is a requirement to remove the Traveler from the lifeline when not in use.
- **Curved overhead brackets** for installation of a lifeline around a corner for use with the Uni 8™ evolution™ Traveler.
- **High tensioned stainless steel cable** supports heavy fall arrest devices when required and reduces cable deflections.
- **In-line energy absorbers** reduces load transfer to the structure in the event of a fall.
- **Available as a single or multi-span system** for distances longer than 100' (30m).
- **Computer software** calculates system performance to ensure system designs meet customer needs and are safe.
- **Strong intermediate cable** supports allow the system to span greater distances for long bay work areas and permit free passage of the Traveler.
- **Electro-polished stainless steel (316) components** provide long-term corrosion resistance.*
- **Supports multiple workers** up to 310 lbs (140kg) each.
- **Tested to EN795 class C** and meets the requirements of AS/NZS is OSHA compliant.

* *Some aggressive environments can cause corrosion and discoloration of stainless steel.*

APPLICATIONS OVERVIEW

The Uni 8™ Overhead fall protection system was primarily developed to meet the needs of transport and industrial customers including trucks, trains and aircraft, crane walkways and loading bays.

The system has also solved access and safety problems in the entertainment and arena industry. This quality safety solution can support heavy fall arrest and controlled rate descent devices, and ensures free and unhindered movement for the worker when carrying out work at height.

Uni 8™ Overhead resolves functionality issues experienced by using a standard horizontal lifeline for such applications and mitigates the difficulties associated with solving fall protection problems in conditions that can often be challenging.

KEY COMPONENTS

TRAVELERS

UNI 8™ EVOLUTION™ TRAVELER

UNI 8™ OVERHEAD TRAVELER

END FIXINGS

UNI 8™ 1,800 LBS (0.8kN) TENSIONER

UNI 8™ 1,125 LBS (0.5kN) TENSIONER

UNI 8™ 0.31" (8mm) HEX SWAGE JOINER

UNI 8™ 0.31" (8mm) HEX SWAGE TOGGLE

END FIXINGS

UNI 8™ WALL MOUNTING PLATE

UNI 8™ STRAIGHT EYE

UNI 8™ EVOLUTION™ HIGH CAPACITY ENERGY ABSORBER

UNI 8™ ENERGY ABSORBER

UNI 8™ EVOLUTION™ MONO ATTACHMENT ANCHORAGE

BRACKETS

UNI 8™ EVOLUTION™ TRIPLE ARTICULATED ANCHORAGE POINT

BRACKETS

UNI 8™ OVERHEAD BRACKET

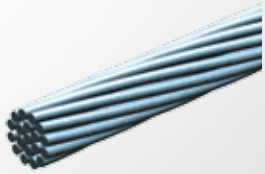
UNI 8™ EVOLUTION™ OVERHEAD SHORT CURVE

UNI 8™ EVOLUTION™ OVERHEAD INTERMEDIATE

UNI 8™ EVOLUTION™ OVERHEAD CURVE

CABLE

0.31" (8mm), 7 X 7 STAINLESS STEEL CABLE



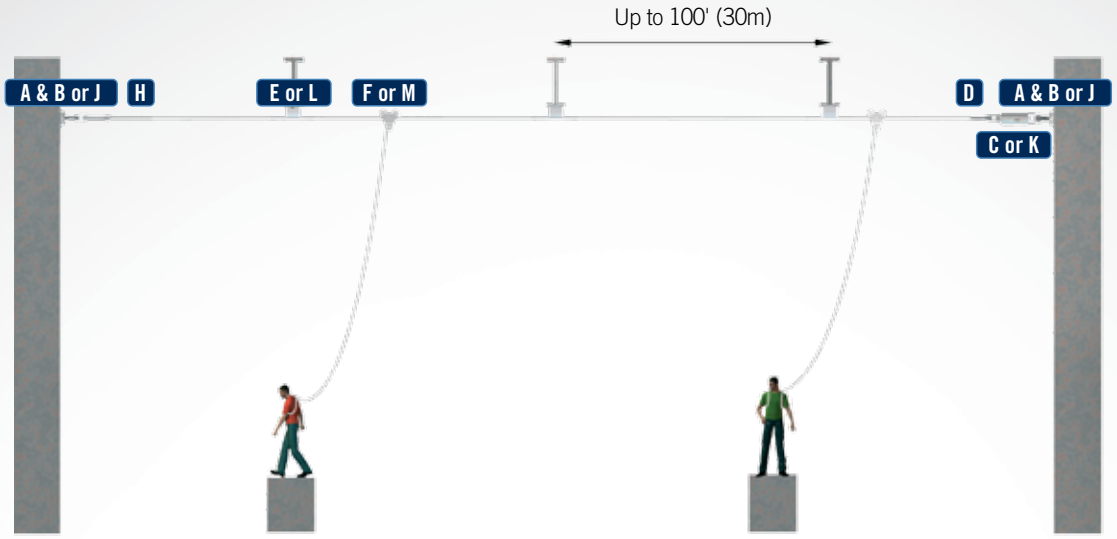
0.31" (8mm), 1 X 19 STAINLESS STEEL CABLE

UNI8™ OVERHEAD SYSTEM COMPONENT COMPATIBILITY

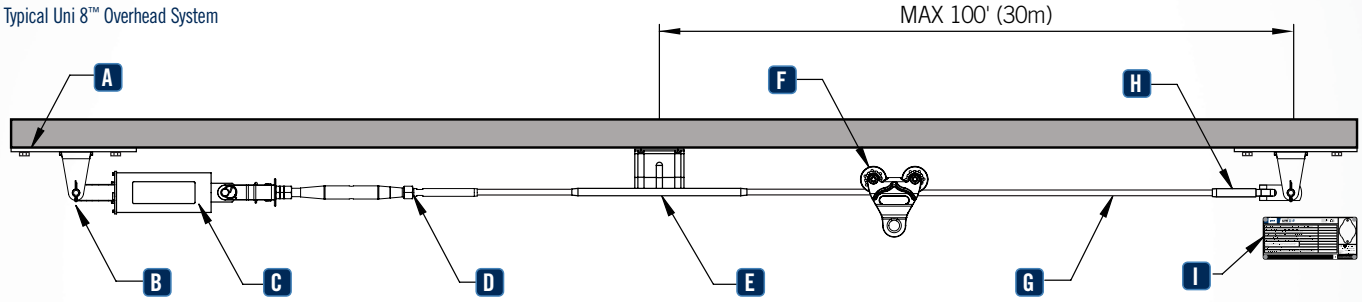
In the Uni 8™ Overhead System there are two Traveler options to suit different applications. The table below shows the suggested components for a curved low tensioned system or straight high tensioned system. Full details of component compatibility can be found in the Uni 8™ Overhead technical manual.

		Curved System	Straight System
			
		Uni 8™ evolution™ Traveler	Uni 8™ Overhead Traveler
Tensioner		✓	✗
1,125 lbs (5kN) Tensioner		✗	✓
Overhead Intermediate Bracket		✓	✓
evolution™ Overhead Intermediate		✓	✗
evolution™ Overhead Curve		✓	✗
evolution™ Overhead Short Curve		✓	✗
evolution™ Energy Absorber		✓	✗
Energy Absorber		✓	✓
evolution™ Triple Articulated Anchorage Point		✓	✗
evolution™ Mono Attachment Anchorage		✓	✗
0.31" (8mm), 7 x 7 Stainless Steel Cable		✓	✗
0.31" (8mm), 1 x 19 Stainless Steel Cable		✗	✓

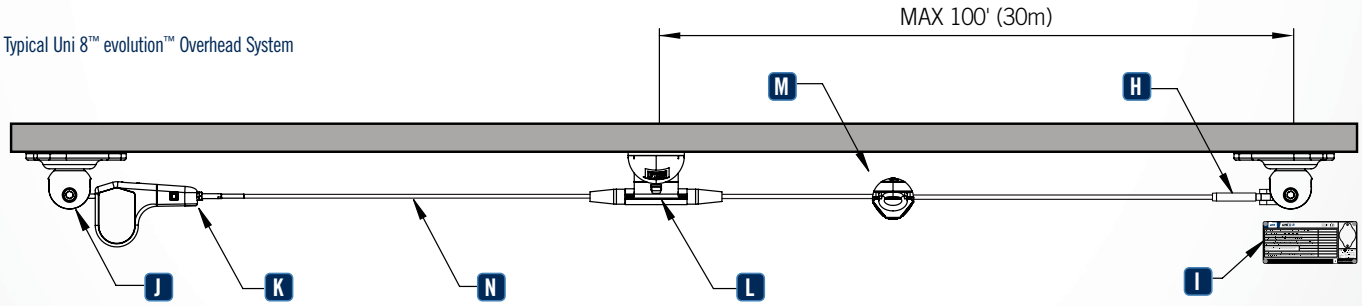
INSTALLATION EXAMPLES



Typical Uni 8™ Overhead System



Typical Uni 8™ evolution™ Overhead System



A Wall Mounting Plate
B Straight Eye
C Energy Absorber
D Tensioner 1,124 lbs (5kN)
E Overhead Bracket
F Overhead Traveler
G 0.31" (8mm), 1 x 19 Stainless Steel Cable
H 0.31" (8mm), Hex Swage Toggle
I System Tag
J evolution™ Triple Articulated Attachment Anchorage
K evolution™ Energy Absorber
L evolution™ Overhead Intermediate
M evolution™ Traveler
N 0.31" (8mm), 7 x 7 Stainless Cable

FREEDOM OF MOVEMENT MADE PERMANENT

COMBINE WITH GOOD MANAGEMENT CONTROL FOR SIMPLE, YET COMPREHENSIVE FALL PROTECTION

- Perfect for special projects, refurbishments and a wide range of industrial safety applications
- Minimal moving parts and high grade materials ensure long life expectancy and low cost of ownership
- System can be fitted to many types of structures and can also support multiple workers for both fall arrest and work restraint applications

Conforms to EN 795, OSHA, ANSI, AS/NZS standards and has been tested to meet EN 795 Class C standard

KEY FEATURES

- A unique 5/8 inch (16 mm) permanent fall protection system that enables **complete freedom of movement** including navigation of corners and building contours
- **Spans up to 100 feet** (30 meters) between intermediate supports, saving installation time and cost
- **Excellent energy absorbing** capability
- **Electropolished components** provide long-term corrosion resistance*
- **UV, ozone and water resistant** — does not rot
- **Non-abrasive** to existing building structure
- System performance calculated using **custom design software**

*Some aggressive environments can cause corrosion and discoloration of stainless steel

SYSTEM TENSIONER
316 & 304 stainless steel with tension indicator disc and ability to lengthen or shorten the system

16MM SYNTHETIC CABLE
Constructed from polyester, latex and neoprene with a breaking strength of 17,000 lbs. (76 kN) — available in grey, orange and black

INTERMEDIATE BRACKET
316 stainless steel, electropolished — variable positioning available to suit a range of applications; reorientates load in the event of a fall

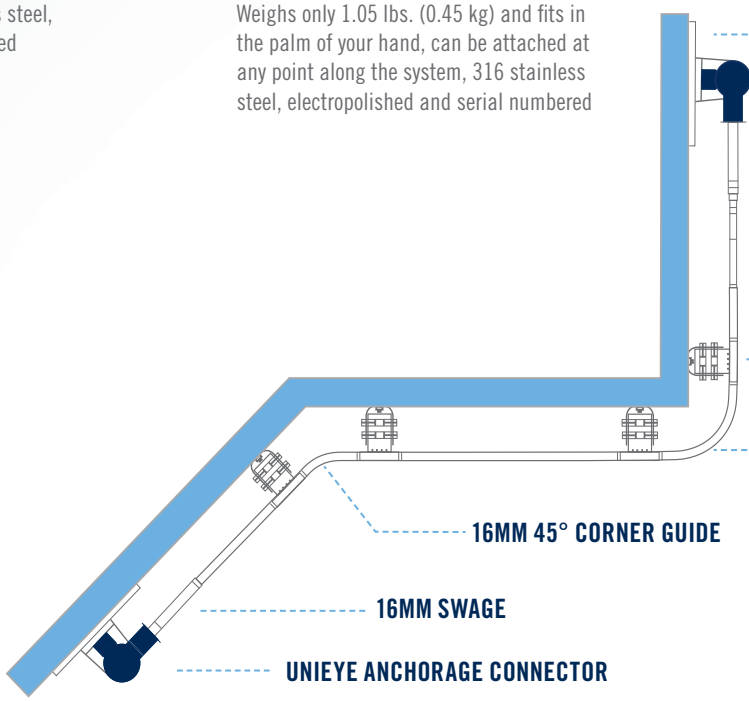
UNI 16™ SYSTEM LAYOUT

ENERGY ABSORBER
316 stainless steel, electropolished

UNIGRAB ATTACHMENT DEVICE
Weighs only 1.05 lbs. (0.45 kg) and fits in the palm of your hand, can be attached at any point along the system, 316 stainless steel, electropolished and serial numbered

WALL ANCHOR PLATE
316 stainless steel, electropolished, 11,240 lbs. (50 kN) min breaking strength

16MM TENSIONER



16MM INTERMEDIATE BRACKET

16MM 45° CORNER GUIDE

16MM SWAGE

UNIEYE ANCHORAGE CONNECTOR

16MM 90° CORNER GUIDE 90° AND 45° CORNERS
316 stainless steel, electropolished, other angles achieved using bespoke fabrications

SWAGE END
316 stainless steel

UNIEYE END ANCHORAGE CONNECTOR
316 stainless steel, electropolished, serial numbered — 15,000 lbs. (67 kN) min breaking strength

BEST FOR INDUSTRY, CONSTRUCTION AND SPECIALIZED APPLICATIONS

WORKING SAFELY AT HEIGHTS

SAFETY AT ITS BEST

PROTECT WORKERS FROM FALL PROTECTION RISKS with a simple, continuous and functional anchorage system

- Useful in fall protection applications and as the primary anchor point for suspended rope access tasks
- Quality extruded aluminum rail design provides a high level of user safety combined with an aesthetically pleasing appearance
- With its free-flowing attachment carriage and no brackets to pass over, the user experience is truly hands-free

Compliant with EN795, OSHA and AS/NZS standards

KEY FEATURES

- **Free-flowing attachment carriage and bracket-free design** offer hands-free functionality while navigating corners and building contours
- **Can be fitted to a wide range of structures**, supporting multiple workers for both fall arrest and fall restraint applications
- Can span up to **10 feet (3 meters)**
- **6000 series aluminum alloy and 316 stainless steel components** help system withstand harsh environments, providing longevity and saving future maintenance and replacement costs
- Product design and fixing centers **reduce structural loading** and **increase adaptability** to building or structural tolerances, especially in weaker structures
- The main rail floats in its fixings to **mitigate the effects of thermal expansion and contraction** which would otherwise cause the rail to buckle
- Each carriage has an **ultimate strength of over 3,300 lbs.** (15 kN)
- **Modular design** makes it easy to install and specify

TYPICAL APPLICATIONS INCLUDE:

- External façade access for window cleaners and building maintenance engineers
- Internal and external access for high work areas such as walkways and gantries
- Overhead anchorage for work on vehicles and in production halls
- Suspended rope access work for internal and external building maintenance tasks
- Fall arrest support for a swing stage
- Water treatment tanks and storage vessels
- Commercial maritime vessels
- Public and heritage buildings
- Wind turbine Nacelle safety
- Tourist attractions and theme parks

PROVEN TRACK RECORD

With use in buildings and commercial marine applications, UniRail™ provides the confidence and satisfaction workers need to do their best work safely and has been used in some of the most prestigious and demanding projects all over the world.

KEY COMPONENTS

COMMON PARTS

MOULDED END
Protects personnel from injuring themselves against an exposed edge of end rail

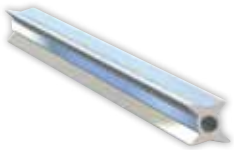
SYSTEM STOP
Prevents the rail from coming out of its end anchorage bracket in the event of a fall in the first or last span of the system

TAMPER-PROOF CARRIAGE STOP
Prevents the carriage from coming off the end of the system

REMOVABLE CARRIAGE STOP
Prevents the carriage from coming off the end of the system but can be removed to allow the carriages to be taken off

RAIL JOINT
Joins the ends of two rails and maintains the integrity of the system for fall arrest situations

RAIL
Discrete profile just 1 ¼ inches x 1 ¼ inches (32mm x 32mm); silver anodised as standard and can be powder coated on request



CORNERS
90º, 90º external, 90º internal, 45º, 45º external, 45º internal corners are available from stock and other bends and forms are easily accommodated down to a radius of 7.88 inches (200mm)

ATTACHMENT CARRIAGE
Enables the user to connect to the system and enjoy complete hands-free movement along the rail. It features a stainless steel parking lock for work positioning tasks and aluminum, nylon coated wheels. A stainless steel shackle enables connection of a carabiner hook and pivots to enable best functionality at any angle of take off. Min strength 3,300 lbs. (15 kN).

SIDE FIX PARTS

END ANCHOR
Secures the end of the rail to the structure and controls rail movement in the event of a fall

INTERMEDIATE ANCHOR
Secures the rail to the structure at intervals to suit the work site and structure

CONCEALED FIX PARTS

END ANCHOR
Secures the end of the rail to the structure and controls rail movement in the event of a fall

INTERMEDIATE ANCHOR
Secures the rail to the structure at intervals to suit the work site and structure (tapped versions available)

COMMERCIAL MARINE

32MM OMEGA CLAMP
To be used to mount sections of rail to stanchions or hand rails fabricated from approximately 1.25 inches (32mm) dia. tube

CARRIAGE GATE
To allow the carriage to be removed from a closed loop of UniRail™ for maintenance as part of commercial marine system

FLEXIRAIL INSERT
To allow a continuous system to be fitted where two adjoining sections of rail need to be mounted to parts of the structure which can move independently of each other in a UniRail™ commercial marine system

WIND ENERGY

JOINT ANCHOR
Used to join two rails together and anchor to the structure in Wind Turbine Systems that are required to comply with BSEN50308

INTERMEDIATE ANCHOR
For fixing the rail system to the structure in Wind Turbine Systems that are required to comply with BSEN50308

UNIRAIL™ CARRIAGE
The carriage is part of the UniRail™ system. It provides a mobile attachment point for users to connect to. One user per carriage. Use only on straight systems. Minimum strength 5,000 lbs. (22 kN).

capital
SAFETY

INNOVATION THAT BRINGS WORKERS AT HEIGHT HOME SAFELY.

Capital Safety is a global company solely dedicated to fall protection and rescue. Our focus is razor sharp. And it continually drives us to design and manufacture the safest possible height safety gear.

We understand the industries we serve and listen to the workers in the field. We employ the best engineers to create innovative solutions and patent the products that keep workers safe at heights around the world. Capital Safety has the best quality and largest range of fall protection products in the industry. But we're more than a product company.

We take an innovative approach in bringing our products to the field. We have created international partnerships and a vast network of authorized distributors, certified installers and service centers. We offer on-site and in-house training. And we're ISO 9001-2000 certified for customer service, as well as manufacturing and engineering.

Capital Safety is one of the world's leading manufacturers of fall protection and rescue equipment, with decades of experience and a legacy of innovation. Look for complete solutions in our extensive line of DBI-SALA® and Protecta® products.

DBI SALA®

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