SECTION XXXXX

UNILINE UNI-8 HORIZONTAL LIFELINE FALL PROTECTION SYSTEM

PART 1 GENERAL

1.1 SYSTEM DESCRIPTION

- A. Type of system required: Horizontal Lifeline (HLL)
- B. System location: Roof/ Wall/ Tower/ Etc.... Foot/ Waist/ Head Height?
- C. Maximum number of workers on system at one time: ##
- D. Systems environmental exposure: What are the service conditions (indoors, outdoors, corrosive environment)? What materials will be required (steel, hot dip galvanizing, stainless steel, marine grade stainless etc....)?
- E. Workers task while on the system: Workers will walk along edge. Occasionally, workers are required to look over the edge. While walking, workers need to carry heavy objects.
- F. Type of fall protection required: Fall Restraint and Fall Arrest
- G. Range of movement while on the system: Uninterrupted movement throughout the entire length of the system
- H. Additional components: All attaching devices necessary for # workers.
- I. Insurances required: Commercial Liability and Workers' Comp.

1.2 RELATED SECTIONS

- A. Section 03300 Cast-In-Place Concrete
- B. Section 03400 Pre-Cast Concrete
- C. Section 05100 Structural Metal Framing
- D. Section 05400 Cold Formed Metal Framing
- E. Section 05310 Metal Deck
- F. Section 06100 Rough Carpentry
- G. Section 07510 Built-Up Roofing
- H. Section 07700 Roof Specialties and Accessories

I. Section 11010 - Maintenance Equipment

1.3 REFERENCES

- A. Occupational Safety & Health Administration (OSHA)
 - 29 CFR 1910.28(b)(1) & 29 CFR 1926.501(b)(1) Occupational Health and Safety Standards General Industry & Construction: Duty to have fall protection
 - 2. 29 CFR 1910.140(c)(11)(i-ii) & 29 CFR 1926.502(d)(8) Safety and Health Regulations for General Industry & Construction: Horizontal Lifeline Design Requirements.
 - 29 CFR 1910.140(c)(13)(i-ii) & 29 CFR 1926.502(d) (15) (i-ii) Safety and Health Regulations for General Industry & Construction: Anchorage Design Requirements.
 - 4. 29 CFR 1910.66 (e)(1)(i) General Industry: Powered Platform Installations -Affected parts of buildings.
- B. American National Standards Institute (ANSI)
 - 1. Z359.0 [2012] Definitions and Nomenclature Used for Fall Protection and Fall Arrest.
 - 2. Z359.1 [2007] Safety Requirements for Personal Fall Arrest Systems, Subsystems and Components
 - 3. Z359.2 [2007] Minimum Requirements for a Comprehensive Managed Fall Protection Program
 - 4. Z359.3 [2007] Safety Requirements for Positioning and Travel Restraint Systems.
 - 5. Z359.4 [2007] Safety Requirements for Assisted-Rescue and Self-Rescue Systems, Subsystem and Components.
 - 6. Z359.6 [2009] Specifications and Design Requirements for Active Fall Protection Systems.
 - Z359.12 [2009] Connecting Components for Personal Fall Arrest Systems
 - 8. Z359.13 [2009] Personal Energy Absorbers and Energy Absorbing Lanyards
 - 9. Z359.14 [2012] Safety Requirements for Self-Retracting Devices for Personal Fall Arrest and Rescue Systems.

- C. Materials, Bolting, Finishing: American Society of Testing Materials (ASTM)
 - 1. A36 Standard Specification for Carbon Structural Steel.
 - 2. A500 Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes
 - 3. A53 Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless
 - 4. F1554 Standard Specification for Anchor Bolts, Steel, 36, 55, and 105 KSI Yield Strength.
 - A193 Standard Specification for Alloy-Steel and Stainless Steel Bolting for High Temperature or High Pressure Service and Other Special Purpose Applications
 - 6. A123 Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products
 - 7. A666 Standard Specification for Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
 - 8. A992 Standard Specification for Structural Steel Shapes.
 - 9. F3125 Standard Specification for High Strength Structural Bolts, Steel and Alloy, Heat Treated, 120ksi and 150ksi Minimum Tensile Strength, Inch and Metric Dimensions.
- D. American Welding Society (AWS) D1.1/D1 Structural Welding Code Steel
- E. Design Standards
 - 1. American Institute of Steel Construction (AISC) 325-11 [14th ed.] Steel Construction Manual
 - 2. National Design Specification (ANSI/NDS) [2012] Wood Construction Manual
 - 3. International Building Code (IBC) [2012] Building Design Manual
 - 4. American Society of Civil Engineers (ASCE/SEI) 7-10 [2010] Minimum Design Loads for Buildings and Other Structures
 - 5. American Concrete Institute (ACI) 318-11 Building Code Requirements for Structural Concrete.
- F. Definitions

- 1. Anchorage per ANSI Z359.0 A secure connecting point or a terminating component of a fall protection system capable of supporting impact forces applied by a fall protection system.
- 2. Anchorage Connector per ANSI Z359.0 A component or subsystem that functions as an interface between the anchorage and a fall protection, work positioning, rope access or rescue system for the purpose of coupling the system to the anchorage.
- 3. Clearance per ANSI Z359.0 The distance below an authorized person that must remain clear of obstructions in order to ensure that the authorized person does not make contact with any objects that would cause injury in the event of a fall.
- 4. Continuous Fall Protection per ANSI Z359.0 One or more fall protection systems that provide fall protection without interruption.
- 5. Fall Arrest per ANSI Z359.0 The action or event of stopping a free fall or the instant where the downward free fall has been stopped.
- 6. Fall Hazard per ANSI Z359.0 Any location where a person is exposed to a potential free fall.
- 7. Fall Restraint/Travel Restraint per ANSI Z359.0 A combination of anchorage, anchorage connector, lanyard (or other means of connection) and body support (full body harness) that limits travel in such a manner that the user is not exposed to a fall hazard.
- Qualified Person per ANSI Z359.0 A person with a recognized degree or professional certificate and with extensive knowledge, training and experience in the fall protection and rescue field who is capable of designing, analyzing, evaluating and specifying fall protection and rescue systems to the extent required by the Z359 standards.

1.4 PERFORMANCE

- A. System shall comply with 1.1 System Description
- B. Performance Requirements
 - 1. System Performance
 - a. The Fall Protection Horizontal Lifeline System shall be designed to allow users to walk the entire length of the system without having to disconnect from the system to pass through intermediate supports. The system shall be designed to support required number of users in case of a fall and to prevent the users from free falling more than 6 feet. All components shall be designed by the fall protection system supplier and shall meet the applicable fall protection ANSI standards and applicable OSHA regulations.

- b. The Fall Protection Horizontal Lifeline System shall be designed to control swing fall at corners and other locations in accordance with Z359.6.
- 2. Structural Performance:
 - a. Structure supporting the Horizontal Lifeline system must be capable of withstanding design loads based on the maximum specified number of users as required by governing regulations and codes. Where component design loads are specified herein, they represent design minimum requirements.
 - b. All fall protection components and systems shall be designed with a minimum 2:1 safety factor per section reference 1.3.A.2. In addition, structure supporting fall protection components and systems shall be designed for combined loading conditions in accordance with section reference 1.3.B.3.

1.5 DESIGN

- A. Design Requirements
 - 1. Fall protection horizontal lifelines shall comply with current applicable OSHA, ANSI, and state regulations and standards.
 - 2. The fall protection system and any supporting structure shall be designed by:

Capital Safety	Phone:	1-800-328-6146
3833 Sala Way	Website:	www.capitalsafety.com
Red Wing, MN 55066	E-mail:	info@capitalsafety.com.
Gravitec Systems Inc.	Phone:	1-800-755-8455
21291 Urdahl Road NW,	Website:	www.gravitec.com
Poulsbo, WA 98370-7124	E-mail:	solutions@gravitec.com.

- 3. General Requirements:
 - a. Horizontal lifelines shall be designed and installed, under the supervision of a Qualified Person, as part of a complete personal Fall Protection system.
 - b. The horizontal lifeline must be level (less than a 5% grade).
 - c. Engineers shall, at minimum determine the performance of the system when a fall occurs on the shortest span (largest forces) and the longest span (largest total fall distance) in the system.

- d. The HLL(s) inline force management energy absorber shall not be used to limit the maximum arrest force of the worker. The HLL(s) inline force management energy absorber shall be used only to control or reduce the maximum arrest load on the structure.
- e. Anchorages for horizontal lifelines systems shall be verified and designed, prior to use, by a Qualified Person with experience and training in designing and using horizontal lifelines systems.
- f. HLL(s) shall satisfy the seismic conditions for nonstructural components as described by ASCE/SEI 7 and the most current edition of the IBC. No exceptions can be taken if the system is required to function for life-safety purposes after an earthquake.
- g. The fall arrest system shall consist of a stainless steel safety cable attached to the structure. The cable shall be continuous or shall have swaged splices, which allow the user to pass without disconnecting from the system.
- h. Brackets and supports shall be attached to the structure with appropriate anchors of proper size to adequately support the intended loaded.
- i. The HLL(s) shall comply with Uniline design requirements.
- 4. Restraint HLL(s) shall be designed per ANSI Z359.2 & ANSI Z359.6:
 - a. The HLL(s) shall prevent workers from reaching and falling into any open hole or off the edge of a working surface.
 - b. The horizontal lifeline shall comply with the requirements for fall arrest horizontal lifelines as indicated in this document.
 - c. Where a worker is using a full body harness the force on the worker's body shall not exceed 400 lbs.
 - d. HLL inline force management energy absorber may be used in travel restraint systems; provided that the engineer has determined that the restraint forces will not cause the HLL inline force management energy absorber to deploy and ensures that the deflection of the wire rope in combination with other deformations of the restraint system will not permit the worker(s) to reach the fall hazard.
 - e. The use of fall restraint systems shall be limited to surfaces at or less than a slope of 4:12 from the horizontal. This is so a fall will not result in dynamic loading on the fall restraint system or where the authorized person could end up being suspended vertically from the system.

- 5. Fall Arrest HLL(s) shall be designed per ANSI Z359.2 & ANSI Z359.6:
 - a. The selection, design, and installation of fall arrest horizontal lifelines shall be performed under the supervision of a Qualified Person.
 - b. Fall arrest horizontal lifelines shall have the strength capable of sustaining static loads applied to the wire rope of at least two times the maximum arresting force.
 - c. When more than one user is attached to a horizontal lifeline, the load on the lifeline can be determined using either lumped mass or sequential fall as described in ANSI Z359.6 [6.3.6]
 - d. The swing fall shall comply with ANSI Z359.6 [5.3]
 - e. The clearance safety margin shall comply with ANSI Z359.6 [7.2.6.2]
- B. Sub-System Requirements
 - 1. Harnesses and Vertical Lifelines (VLLs) used with the system shall comply with ANSI Z359.1
 - 2. Connecting Components (carabiners and snaphooks) used with the system shall comply with ANSI Z359.12
 - 3. Energy Absorbing Lanyards (EALs) used with the system shall comply with ANSI Z359.13
 - 4. Self-Retracting Lifelines (SRLs) used with the system shall comply with ANSI Z359.14
- C. Horizontal lifelines shall be used exclusively for their designed use and shall be marked to prevent other uses.
- D. The design shall take into consideration the potential uses of and loads on the horizontal lifeline, in order to facilitate the prompt rescue of workers who may fall while attached to the system.
- E. The manufacturer shall test the HLL design using a 660lb weight on various roof structures.
- F. Each batch of inclined HLLs shall be static, dynamic, salt spray, and x-ray tested.
- G. Each component of the inclined HLL shall be batch marked or individually serial numbered.
- 1.6 SUBMITTALS

- A. Submit under provisions of Section ##### Submittal Procedures
- B. Product Data: Uniline' data sheet on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations
 - 3. Installation methods
- C. Drawings and Calculations:
 - 1. Drawings:
 - a. Show the layout of the system including where the system is located and the complete assembly of all components.
 - b. Include a specification of the number, location, and qualifications of workers using the system.
 - c. Clearly specify the equipment dimensions, materials, fabrication details, hardware, and installation instructions.
 - 2. Calculations:
 - a. Calculations shall be prepared under the supervision of a registered Professional Engineer and Qualified Person.
 - b. Include a statement defining the type of system and indicating that the design is in accordance with the requirements of ANSI Z359.6.
 - 3. The Professional Engineer who oversaw the design of the system shall affix their professional seal to each drawing and calculation package issued.
- D. Operation and Maintenance Data shall be prepared per Z359.2 & ANSI Z359.6:
 - 1. Include complete list of equipment replacement parts; identify each entry with the equipment description and part numbers.
 - 2. Include technical information for servicing equipment.
 - 3. Include legible "as-constructed" drawings of the installed system.
 - 4. Include installation date and system owner's name and address.
 - 5. Include detailed operating procedures:
 - a. Written by a Qualified or Competent Person.

- b. Identifying the horizontal lifelines location
- c. Stating any safety precautions that shall be followed during access and egress.
- d. Describing the limitation on use of system: maximum load, designated equipment, required clearance and maximum number of persons permitted to be attached to the system at one time.
- e. Instructions for inspection, maintenance, and retirement of the system and all of its components, including how often inspection and maintenance are to be performed and a description of the qualifications required for persons performing these tasks.
- f. Procedure for inspection:
 - I. Required or recommended inspection intervals.
 - II. Detailed instruction for inspecting each component of the system.
 - III. Description of acceptance or rejection criteria, including retirement criteria, of each component of the system.
 - IV. Fall protection procedures shall include a requirement that any incidents, including accidents or near misses, be investigated to determine if procedures can be improved.
- 6. Provide or direct the owner of the system or the employer of the workers using the system to develop and implement a rescue plan before the system is used.

1.7 QUALITY ASSURANCE

- A. Single Source: Obtain all materials and equipment required under this section from a single supplier.
- B. Designer/Installer Qualifications: Engage a single firm to assume undivided responsibility for the design and fabrication of all fall protection system components. Firm shall have a minimum of 5 years documented experience in the fabrication of such components similar to that required for this project. Additionally, the firm shall have a minimum of 5 years documented experience in the installation of such components and who offers a regular inspection and maintenance service on such systems.
- C. Design Engineer: Employ a firm with a minimum of 10 years experience designing fall protection systems with a minimum of 5 systems installed in the previous 12 months. Who employs a registered Professional Engineer (PE), with

evidence of being the principal PE on at least 3 fall arrest systems which have been in use for no less than 1 year prior to bid closing date.

- D. Professional Engineer and Fall Protection Qualified Person: Shall oversee the fall protection systems' design, such that all component items meet the "Structural Performance" requirements, including sizing and spacing of all attachments to the building structure and verify the design is compliant with all applicable OSHA and ANSI standards. Additionally, they must prepare, stamp and sign all required calculations; while also approving the system designer's drawings
- E. Welding to be executed by certified welders in accordance with AWS requirements.

1.8 DELIVERY, STORAGE & HANDLING

- A. Material delivery shall be coordinated with all effected entities.
- B. Storage and Protection:
 - 1. Store originally packaged materials in a cool, dry, and protected location.
 - 2. Materials shall be in new condition and show no signs of damage.

1.9 SEQUENCING

A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

1.10 WARRANTY

A. Manufacturer's standard year warranty for materials and workmanship.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers shall comply with the *Quality Assurance* section of this documentation.
- B. All supporting structure which connects the horizontal lifeline to the super structure shall be designed by:

Gravitec Systems Inc.	Phone:	1-800-755-8455
21291 Urdahl Road NW,	Website:	www.gravitec.com
Poulsbo, WA 98370-7124	E-mail:	solutions@gravitec.com.

2.2 PRODUCTS

A. Capital Safety 3833 Sala Way Red Wing, MN 55066

2.3 MATERIALS

- A. Product
 - 1. The system shall be a complete and turnkey complying with the performance and design criteria of this document.
 - 2. The HLL(s) shall be the product of Uniline PLC.
 - 3. Components: All system connectors, cables and bolts shall be stainless steel Type 316 or epoxy coated aluminum. Fabricated supports required for additional support may be carbon steel with a corrosion resistant coating. However a faying surface shall be used to prevent galvanic reactions.
 - 4. Post Base Plate Connectors: Provide complete with required components for weatherproof mounting to the following surfaces:
 - a. Standing Seam Roof Type.
 - b. Composite Ribbed Roofing Type.
 - c. Metal Roofing Type.
 - d. Insulated Roof Deck Type.
 - e. Concrete Deck Type.
 - f. Timber Deck Type.
 - g. Non-Penetrating.
 - 5. The Uniline Fall Protection System shall be attached to the supporting structure with appropriate fasteners. The fasteners shall be designed to support a load on the fall protection system of 2 times the maximum design load without failure.
 - 6. Provide all designed sub-system items per Section 1.5 (B) of this document.
- B. Supporting Structure
 - 1. Structural Components shall comply with the applicable standards:
 - a. Structural Steel: ASTM A36

- b. Structural Tubing: ASTM A500 Grade B
- c. Structural Bars, Plates, Shapes, and Sheet Piling: ASTM A6
- d. Piping: ASTM A53
- 2. Fasteners shall comply with the applicable standards:
 - a. Structural Bolts: ASTM A325
 - b. Alloy-Steel and Stainless Steel Bolting: ASTM A193
- 3. Flashing and Sealing Material shall comply with the applicable standards:
- 4. Material substitutions shall be better than or equal to the requirements found in this section.
- 5 Fabrication
 - a. Fabricate work true to dimension, square, plumb, level, and free from distortion or defects detrimental to performance.
 - b. Coordinate the system with supporting structure.
 - c. Welding:
 - I. AWS D 1.1 as applicable.
 - II. If Butt welds are used, then surplus welding material is to be ground off to ensure exposed surfaces are smooth. Fillet welds shall not be ground.
 - III. Slag is to be removed from the materials surface.
- 6 Finishes
 - a. Hot Dipped Galvanizing: Comply with ASTM A123.
 - b. Powder Coat: Safety Yellow

2.4 HORIZONTAL LIFELINE DESIGN

- A. Horizontal lifeline design shall comply with the *Design Requirement* section of this document.
- B. Steel design shall comply with AISC 14th ed.
- C. Wood design shall comply with ANSI/NDS [2005]

- D. Concrete design shall comply with ACI [2008]
- E. Fall protection systems attached onto an existing or new structure shall comply with IBC [2009] and ASCE/SEI [2010]

PART 3 EXECUTION

3.1 INSTALLATION

A. Installation shall be performed by:

Gravitec Systems Inc.Phone:1-800-755-845521291 Urdahl Road NW,Website:www.gravitec.comPoulsbo, WA 98370-7124E-mail:solutions@gravitec.com.

- B. Install in accordance with approved shop drawings and manufacturer's instructions.
- C. The Uniline Fall Protection System shall be installed under the direction of manufacturer's authorized trained personnel and under the supervision of a Qualified Person
- D. Install anchorages and fasteners in accordance with their manufacturer's recommendations to obtain the allowable working loads published in the product literature and in accordance with this specification.
- E. Do not load or stress the Uniline Fall Protection System until all materials and fasteners are properly installed and ready for service.
- F. Where bolting is used for fastening, no fewer than three threads are to be exposed and the nut is to be positively locked using a thread-locking fluid or the double nutting technique.
- G. Dissimilar materials with greater than 0.15V shall be separated by a faying surface.

3.2 FIELD QUALITY CONTROL

A. After the Uniline Fall Protection System is installed and properly tensioned, Uniline approved authorized Qualified or Competent Person shall inspect and operate the system and shall make all final adjustments for proper operation.

3.3 ADJUSTMENTS AND FINAL INSPECTION

A. Verify that all manufactured units have been installed in accordance with specifications and details, and will function as intended. Adjust any items where necessary to ensure proper operation.

B. Provide a complete drawing set with any revisions to the design or layout of the horizontal lifelines during installation.

3.4 OPERATOR TRAINING

A Provide a minimum of 4 hours of operator training after system has been installed. Training is to be for the users of the system conducted at the installation site.

3.5 MAINTENANCE, INSPECTION AND TESTING

- A. Provide manufacturer maintenance, inspection and testing instructions.
- B. Provide documentation that is consistent with applicable OSHA and ANSI standards.

END OF SECTION



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Uni-8[®] Horizontal Lifeline[®] Cable Fall Protection System









working safely at heights

A workplace is considered to be at height if a person could be injured when falling from it, even if it is at or below ground level. This means that work place risks need to be carefully assessed and appropriate and proportionate control measures implemented in order to mitigate such risks. The Uni-8 Horizontal Lifeline System combined with good management controls provides a simple, yet comprehensive solution that will ensure compliance with current regulations in many circumstances.

The Uni-8 product is well suited to modern building projects, refurbishments and can also be used for a wide range of industrial safety applications. The product is high quality, whilst providing excellent value for money. In typical



circumstances, the product can span up to 12m between support brackets. Uni-8 offers excellent functionality through it's free flowing bypass capability and can navigate corners and contours in building designs. Minimal moving parts and high grade materials ensure long life expectancy, low cost of ownership and add up to a sound investment. The system can be fitted to many types of structure and can also support multiple workers for both fall arrest and work restraint applications.

Detailed information to ensure safe system design and integration is provided by our comprehensive Uniline for Windows software programme and further enhanced by a comprehensive installation network.



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for more information about our range of equipment visit our website at www.unilinesafety.com





features & benefits

- high quality 316 stainless steel cable fall protection system offering excellent freedom of movement
- navigates corners and building contours
- in line energy absorbers protect buildings and structures
- spans of up to 12m (39.36ft) between intermediate supports
- electropolished components provide long-term corrosion resistance**





- a discreet and unobtrusive solution
- system performance calculated using bespoke design software
- conforms to EN795 Class
 C, OSHA 1915.159 &
 1926.502M, ANSI Z359.1
 2007 and AS/NZS 1891.2
- CE Marked
 **some aggressive environments can
 cause corrosion and discolouration of
 stainless steel

robust, functional cost effective

Unieye End Anchorage Connector – 316 Stainless Steel, electropolished, Serial Numbered – 67kN (14,773lbs) min breaking strength



Uni-8 System Tensioner – 316 stainless steel with anti-seizure tensioning unit and tension indicator disc



Uni-8 90 and 45 degree corners. 316 stainless steel, electropolished. Other angles achieved using variable bracket (UI0404-VB)



C&G. U80405/0406/0407/041



8mm (5/16") 7x7 316 stainless steel cable – min breaking strength 38kn (8,542lbf).



Uni-8 intermediate bracket – 316 stainless steel, electropolished. Variable positioning available to suit a range of applications. Re-orientates load in the event of a fall.



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

- A Unieye (UE0100A)
- B 8mm Roll Swage 0.8kN Tensioner (U8T0400)*
 8mm Hex Swage 0.8kN Tensioner (U8T0402)
 8mm Swageless 0.8kN Tensioner (U8T0405)*
- **C** 8mm Tube Only 45° (U80406)
- D 7x7 8mm Stainless Steel Cable (U80800)
- E 8mm Intermediate Bracket (UI0404)
- F UniGrab (UG0800A)
- **G** 8mm Tube Only 90° (U80405)
- H 8mm Roll Swage Toggle (U8S0401)*
 8mm Hex Swage Toggle (U8S0403)
 8mm Swageless Toggle (U8S0406)*
- I Inline Energy Absorber (UA0600)
- J Wall Plate Anchor (UP0112A)

*This component is different from the one illustrated. Fasteners for fixing to the structure are not supplied. For more detailed component information refer to the individual datasheets.

Inline Force Management Energy Absorber – 316 Stainless Steel, electropolished



Uni-8 Swage Toggles - 316

Stainless Steel



Wall Anchor Plate – 316 Stainless Steel, electropolished. 50kN min breaking strength



Capital Safety Group, through our Uniline brand is the global market leader in the design and manufacture of engineered fall protection systems. Through a combination of expert knowledge and practical experience, we can help our customers reduce risk and increase safety when working at height.

Our comprehensive Uniline range of products offers fully compliant, practical solutions for structures of all types, in all industries. Our ethos of delivering quality, service, training and support for our customers has earned Uniline a deserved reputation for excellence around the world.

Operating through specialist safety companies globally, Uniline provides local support and installation services to meet the specific safety objectives of all our customers.



If you need a safety solution for roof access during maintenance and inspection tasks, then look no further than Unlilne's Roofing product range. Our products, including roof anchors, horizontal lifelines & horizontal rail systems offer comprehensive protection for workers on all types of roofs.

vertical (<mark>-</mark>) systems™

The best vertical fall protection systems in the world won't let you down. The extensive development of this range of products for vertical structures including masts, towers, pylons, wind turbines, silos, bridges and chimney stacks ensures customers will enjoy the safest and most functional climbing experience possible.



The products in our Horizontal systems range are some of the best know brands in fall protection safety. The versatility of these products combined with Uniline's expertise in fall protection ensures we can solve even the most complex of height safety problems in industry, construction, façade access and for all manner of building maintenance and inspection tasks.



A unique range of custom access products for challenging fall protection situations in transport and industry. These solutions are structurally analysed and designed to our customers exact needs and specifications.

local distributor/systems integrator

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