



Fall Protection Experts

petrogold-eg.com

Life Line System

CATALOG

 info@petrogold-eg.com

Table of **CONTENTS**

01	ABOUT US
02	INTRODUCTION Lifelines Key Features of Lifeline Systems Installation and Maintenance Guidelines Compliance and Safety Standards
03	UNDERSTANDING FALL PROTECTION
04	HARNESS
05	VERTICAL FALL SYSTEMS
06	HORIZONTAL FALL SYSTEMS
07	FIXED ANCHORAGES
08	OVER HEAD LIFELINE SYSTEM
09	CRANE BAY LIFELINE SYSTEM
10	CHANNEL CLIMPUNG SYSTEM
11	SKYLIGHT PROTECTOR
12	CONTACT US

About Us

At PG Life Line Systems, we are dedicated to engineering and manufacturing premium-quality fall protection systems that safeguard lives. As an emerging leader in safety equipment manufacturing, we combine innovative design with rigorous quality standards to deliver reliable life line solutions for various industrial applications.

Our Vision

To become the trusted global leader in fall protection systems through continuous innovation and unwavering commitment to quality and safety.

Our Mission

To protect lives by delivering superior fall protection solutions that exceed industry standards while providing exceptional customer support and technical expertise.

Manufacturing Standards & Certifications

Our life line systems are manufactured in strict compliance with international safety standards:

Core Certifications

- EN 795:2012 Type C for horizontal lifeline systems
- CEN TS 16415:2013 for multi-user applications
- ISO 9001:2015 Quality Management System
- OSHA compliance for fall protection equipment

Materials & Manufacturing Excellence

Premium Materials

Our products utilize only the highest grade materials:

- 316-grade stainless steel cables and components
- Aircraft-grade aluminum for structural components
- High-tensile steel with protective coating for anchoring systems

Quality Control

Every component undergoes:

- Non-destructive testing
- Load testing to 5,000 pounds minimum breaking strength
- Dimensional accuracy verification
- Material composition analysis
- Corrosion resistance testing

Lifelines:

- Lifeline systems serve as attachment points for fall protection lanyards and must be capable of supporting a minimum of 1000 kg.
- Lifelines can be mounted either vertically or horizontally and are primarily designed to allow mobility for personnel working at elevated locations.
- Horizontal lifelines must consist of at least three-eighths of an inch (3/8") wire rope cable, adequately supported to endure an impact of at least 1000 kg. Softeners must be utilized.
- Horizontal lifelines should be installed to offer attachment points at waist level or higher for the personnel using them.
- Lifelines are strictly prohibited from being used for any purpose other than fall protection.
- Horizontal lifelines must be installed and maintained by the Rigging and Structural Department or a qualified professional.
- Vertical lifelines are crucial for personnel fall protection during vertical movements.
- They can be made up of static lifelines made from cable with approved sliding rope grabs, or may include self-retracting reel-type lanyards and lifelines that attach directly to safety harnesses.
- Only approved sliding rope grabs that correspond with the size of the wire rope should be used to attach a safety lanyard to a vertical lifeline. Lanyards must never be secured to lifelines using knots or loops.
- Rope grabs should be positioned on the lifeline at a height above the user's shoulders.

Additional devices that can be utilized include:

- Safety Nets – These may act as secondary fall protection in specific scenarios. Their installation and use require approval from the Safety Department, and the Rigging and Structural Department will manage net installation when needed.
- Connector Toggles – These devices fit into structural steel bolt holes, creating a secure attachment point for safety lanyards. Personnel working with structural steel should use these devices during steel erection.
- Concrete Form Tie-off – These devices attach to patented concrete forms, offering a connection point for safety lanyards. They should be utilized when placing concrete forms at heights where there is a potential fall risk.
- Lifeline Placement and Installation:
 - Horizontal Lifelines:
 - All horizontal lifelines installed in skeletal steel structures (such as pipe racks) must consist of at least three-eighths inch (3/8") cable.
 - They must be secured at both ends with no fewer than two (2) cable clamps. Sufficient intermediate support should be provided to reduce sag and vertical deflection under load, and softeners should be utilized.

- Horizontal lifelines must be installed and maintained by the Rigging and Structural Department or a designated competent individual.
- Priority should be given to the placement of lifelines as structures are constructed.
- Lifelines must be arranged to ensure adequate mobility throughout all areas of the structure while providing 100% fall protection for personnel.
- Lifelines should be positioned to create tie-off points at least waist height for users.
- Lifelines are strictly for fall protection and should not be used for any other purpose.
- Personnel installing lifelines must be protected from falls at all times by securing themselves to structural steel or similar supports.
- The Rigging and Structural Department or designated competent person will schedule regular documented inspections of all lifelines, at least weekly.
- Vertical Lifelines and Retractable Lifelines
- The use of vertical and retractable lifelines is as follows:
 - Static Wire Rope:
 - Lifelines must consist of wire rope that has been approved by the Safety Department.
 - Lifelines should be utilized with approved rope grabs for attaching lanyards.
 - Lifelines must be anchored at the top using means capable of supporting 1000 kg.
 - NOTE: Softeners should be used in areas where lifelines may come into contact with sharp edges, such as beam flanges.
 - Retractable Reel Lifelines, if applicable:
 - Retractable lifeline devices must be attached to supports capable of withstanding an impact load of 1000 kg.
 - These devices should be secured using shackles and wire rope chokers; synthetic or natural fiber ropes must not be used for securing.
 - Each retractable lifeline device must have a rope tag line to allow extending the device to elevations below the attachment point.
- Where deemed necessary, retractable lifelines should also be utilized to provide fall protection for structural steel workers during erection, prior to the installation of other fall protection systems.

Lifeline Systems Safety

Lifeline systems are essential for fall protection in elevated work environments. These systems provide secure attachment points for lanyards and are designed to ensure the safety of personnel working at heights. Lifelines can be installed either horizontally or vertically, depending on the specific requirements of the job site.

Key Features of Lifeline Systems

Horizontal Lifelines

- Constructed from a minimum of 3/8" wire rope cable.
- Must be capable of supporting an impact load of at least 1000 kg.
- Installed at waist level or higher to ensure maximum protection.
- Designed exclusively for fall protection purposes.
- Must be installed and maintained by qualified personnel, such as the Rigging and Structural Department.

Vertical Lifelines

- Provide essential fall protection during vertical movements.
- Can be made from static wire rope or self-retracting reel-type lanyards.
- Use approved sliding rope grabs for secure attachment to safety harnesses.
- Rope grabs must be positioned above the user's shoulders for optimal safety.

Additional Fall Protection Devices

Safety Nets

- Serve as secondary fall protection in certain scenarios.
- Installation requires approval from the Safety Department.
- Managed by the Rigging and Structural Department when needed.

Connector Toggles

- Designed to fit into structural steel bolt holes, providing a secure attachment point for lanyards.
- Ideal for use during steel erection work.

Concrete Form Tie-offs

- Attach to patented concrete forms, offering a reliable connection point for lanyards during elevated concrete work.

Installation and Maintenance Guidelines

Horizontal Lifeline Installation

- Horizontal lifelines must consist of at least 3/8" cable and be secured at both ends with no fewer than two cable clamps.
- Intermediate supports should be used to minimize sag and vertical deflection under load.
- Softeners must be utilized at sharp edges to prevent damage to the lifeline.
- Lifelines should be installed in skeletal steel structures, such as pipe racks, to provide 100% fall protection while allowing mobility throughout the structure.
- Regular inspections of all lifelines must be documented and conducted weekly by a designated competent individual.

Vertical and Retractable Lifeline Installation

- Vertical lifelines must consist of wire rope approved by the Safety Department and be anchored at the top with supports capable of withstanding a load of 1000 kg.
- Softeners should be used where lifelines may contact sharp edges like beam flanges.

Retractable Lifeline Features

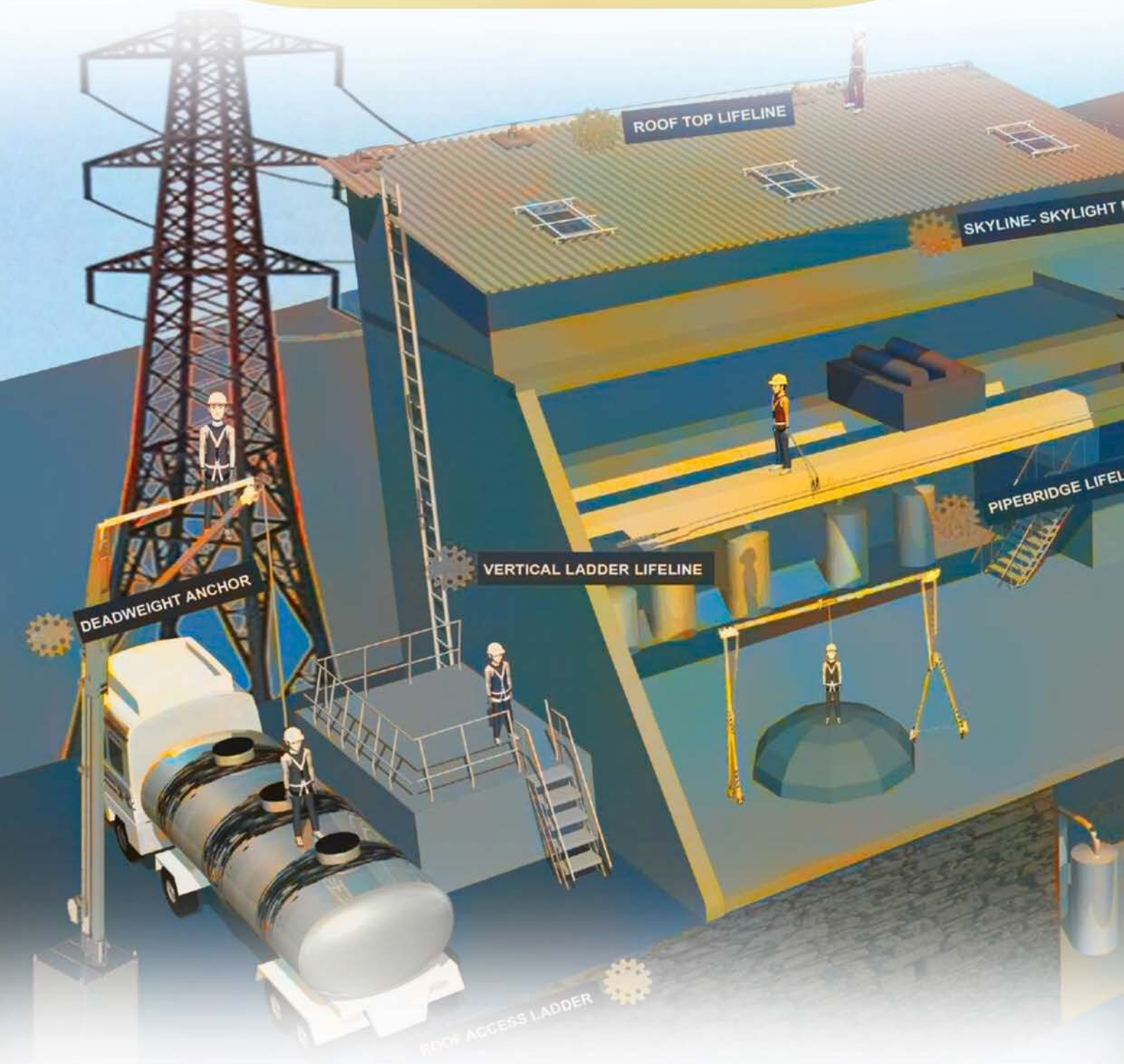
- Retractable reel lifelines must withstand an impact load of 1000 kg and should be secured using shackles and wire rope chokers (synthetic or natural fiber ropes are not allowed).
- Each retractable device should include a rope tag line to extend it to lower elevations when necessary.

Compliance and Safety Standards

- All lifeline systems must comply with current safety regulations.
- Proper installation, regular maintenance, and ongoing inspections are critical to ensuring that these systems function effectively and provide the required level of fall protection.

Manufacturing Process

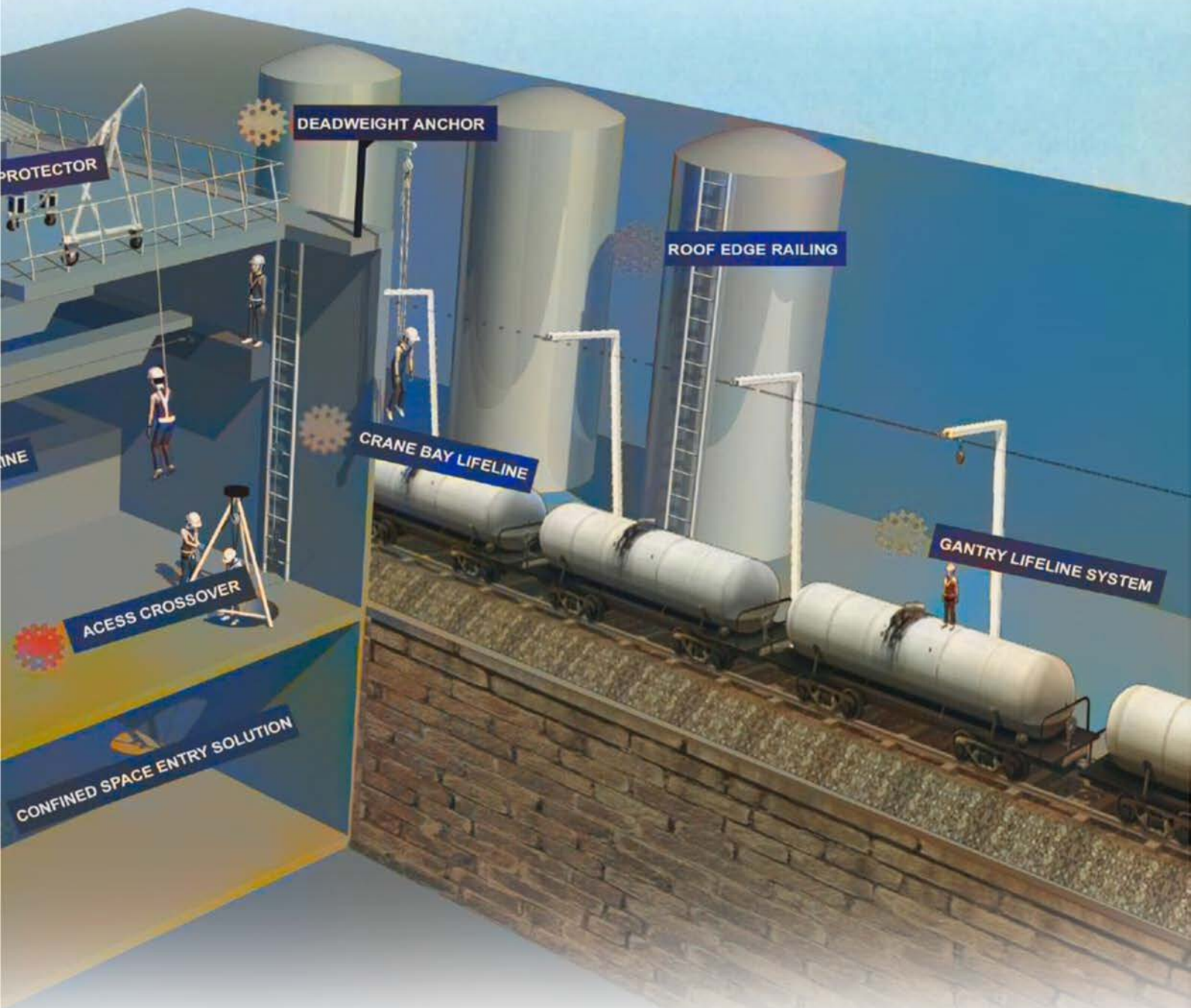
- Computer-aided design and engineering
- Automated precision manufacturing
- 100% component traceability
- Individual product serialization
- Batch testing and certification



Technical Support

Our engineering team provides:

- Custom system design
- Installation consultation
- Technical documentation
- On-site inspection services
- Certification and maintenance support



UNDERSTANDING FALL PROTECTION

What Does Fall Protection Mean?

Fall protection involves controls to safeguard personnel from falls or to minimize injury if a fall occurs. It is essential when working at heights or near edges, pits, or steep surfaces. The system is intended to restrain or arrest falls from heights.

Fall protection is classified into two types: active and passive.

Active Fall Protection Systems

Fall protection includes systems like body belts, harnesses, lanyards, and components such as Self-Retracting Lifelines (SRLs). Users must engage with these safety measures, and the selection of systems follows a thorough Risk Assessment before work starts.



Anchor/ Anchorage Points



The key focus in fall protection systems is the anchorage point, which securely attaches the fall protection device. Supervisors and users must evaluate hazards near the anchorage to prevent users from striking or swinging into obstacles during a fall.

Full Body Harness



The full body harness is essential for an active fall arrest system, as it safely distributes impact forces during a fall and keeps the user suspended upright afterward.

Lanyards



A lanyard connects a harness to an anchorage point in fall protection systems. It can be used for fall arrest or restraint, allowing limited lateral movement. The length and anchor placement affect the free fall distance before the protective device activates.

UNDERSTANDING FALL PROTECTION

Retracting Lifeline Devices



These portable devices are anchored above work areas and function as automatic taut lanyards. They connect to a worker's harness, extending and retracting with movement. Upon a fall, a locking mechanism activates to stop the fall, while an inbuilt shock absorber minimizes shock load. They are especially suitable for sloping roofs and angular structures, ensuring the rope remains taut and unobtrusive during work.

Lifeline



A horizontal lifeline offers continuous anchorage for users moving on an elevated plane, connecting two fixed points at the same level. It allows attachment of lanyards, lifelines, or fall arrest blocks, reducing swing injuries by providing overhead support. Temporary vertical anchorage systems use specially designed rope grabs that secure onto the anchorage line to immediately arrest falls.

Fall Arresting Systems (FAS)

A Fall Arresting System (FAS) aims to stop falls and distribute the energy to prevent injury. It consists of an independent anchorage point, a vertical lifeline, a fall arrester, a harness (or belt), and may include a lanyard and shock absorber, along with necessary hardware like snap-hooks and D-rings.

Hardware Connectors



Hardware connectors include hooks, karabiners, anchorage extensions, and metal links, which serve to connect various components of the Fall Arrest System.

Rescue Systems



The moments immediately after an accidental fall are crucial for preventing injuries to workers. Companies need to establish, implement, and consistently rehearse rescue procedures. Additionally, specialized rescue equipment should be accessible at all times during work hours.

Systems Used In Below-ground Level Tanks or Confined Spaces



Confined spaces are specifically designed areas that have restricted openings for entry and exit. Examples of confined spaces include storage tanks, process vessels, ship compartments, pits, silos, vats, sewers, boilers, tunnels, vaults, and pipelines. To facilitate safe entry and exit from these confined spaces, equipment like davits, tripods, and winches is available.

UNDERSTANDING FALL PROTECTION

Passive Fall Protection Systems

Fall protection such as nets, guard rails and Scaffolding generally provide 100% protection for multiple workers.

Fall Protection Roles

User / Contractor

Users / Contractors who are required to perform work at heights shall have a working knowledge of the hazards present in their work area as well as how to use, inspect and care for the personal fall protection systems they are required to use.

A Competent Person

is trained to identify hazardous conditions in personal fall arrest systems and understand their components and proper use. This designation applies to roles such as instructors, managers, supervisors, third-party suppliers, and employees.

Employer

Any manager, supervisor, or business owner who oversees employees tasked with performing work at elevated heights.

Fall Protection Responsibilities

User / Contractor

- Operate within safety limits set by guardrails and protective equipment.
- Use and maintain fall protection gear according to manufacturer guidelines.
- Complete Working at Height training and have a working at heights assessment.
- Establish a Rescue Plan for tasks with fall risks.

Competent Person

- Ensure employees working at heights meet training requirements and possess necessary skills for safety.
- Develop height and rescue plans for employees as needed.
- Recommend appropriate fall arrest systems for different height work situations.
- Conduct periodic inspections of fall protection equipment per manufacturer or legislative standards.
- Halt any unsafe work immediately.

Employer

To ensure a safe working environment through collective protection, employers should establish and communicate a clear policy that includes:

- Worker Qualification: Assess if employees are qualified for work at height.
- Training: Ensure workers in elevated positions are trained in the fall protection system.

Competent Personnel: Appoint a qualified individual to oversee safety during work at height.

UNDERSTANDING FALL PROTECTION

Choosing the Right Equipment

Is the equipment being utilized properly to ensure safe job performance? Has the equipment acquired for the task been certified to meet the necessary standards?

Setup of Equipment

Equipment Upkeep and Evaluation

Has equipment been installed according to acceptable standards, regulations, and manufacturer's recommendations?

Can the equipment be maintained as recommended, and will employees inspect their personal system components daily before use.

Emergency Rescue Protocols

Has the plan been developed to rescue any employee who has experienced a fall and either awaits rescue while suspended in the Harness or is seriously injured because of not using safety equipment?

Job Safety Assessment (JSA)

A job procedure for working in elevated situations or near edges, like pits or holes, should be in place. Analyzing elevated work tasks helps ensure the fall protection system matches worker mobility needs.

Key points include:

- Company policy outlines necessary actions.
- Appropriate fall protection equipment must be selected, including:
 - Body Support mechanisms
 - Climbing protection systems
 - Vertical and Horizontal Lifeline Systems
 - Confined Entry and Retrieval Systems
 - Controlled Descent Emergency Escape Systems
- Merely selecting safety equipment doesn't create a fall protection program.

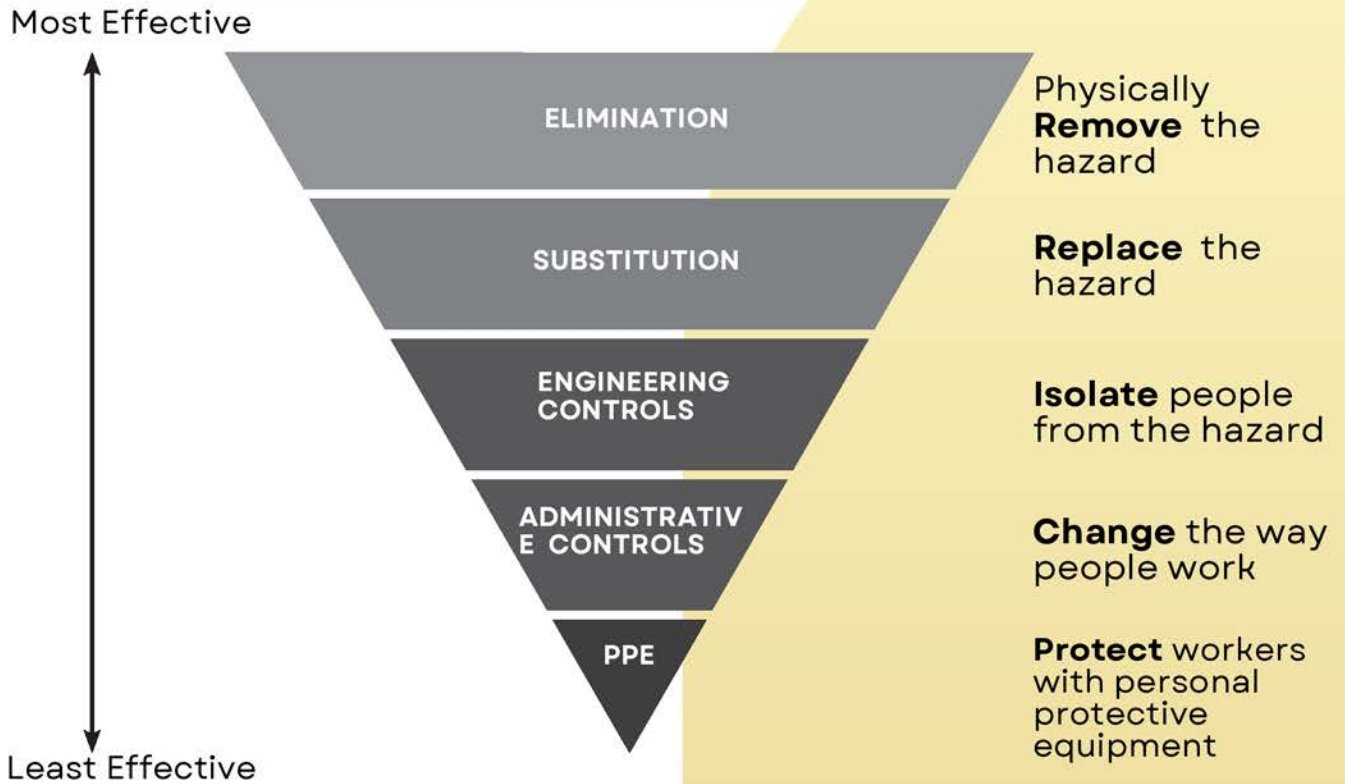
Employers must choose suitable equipment based on manufacturer guidance and should avoid using unapproved equipment.

Provide Training

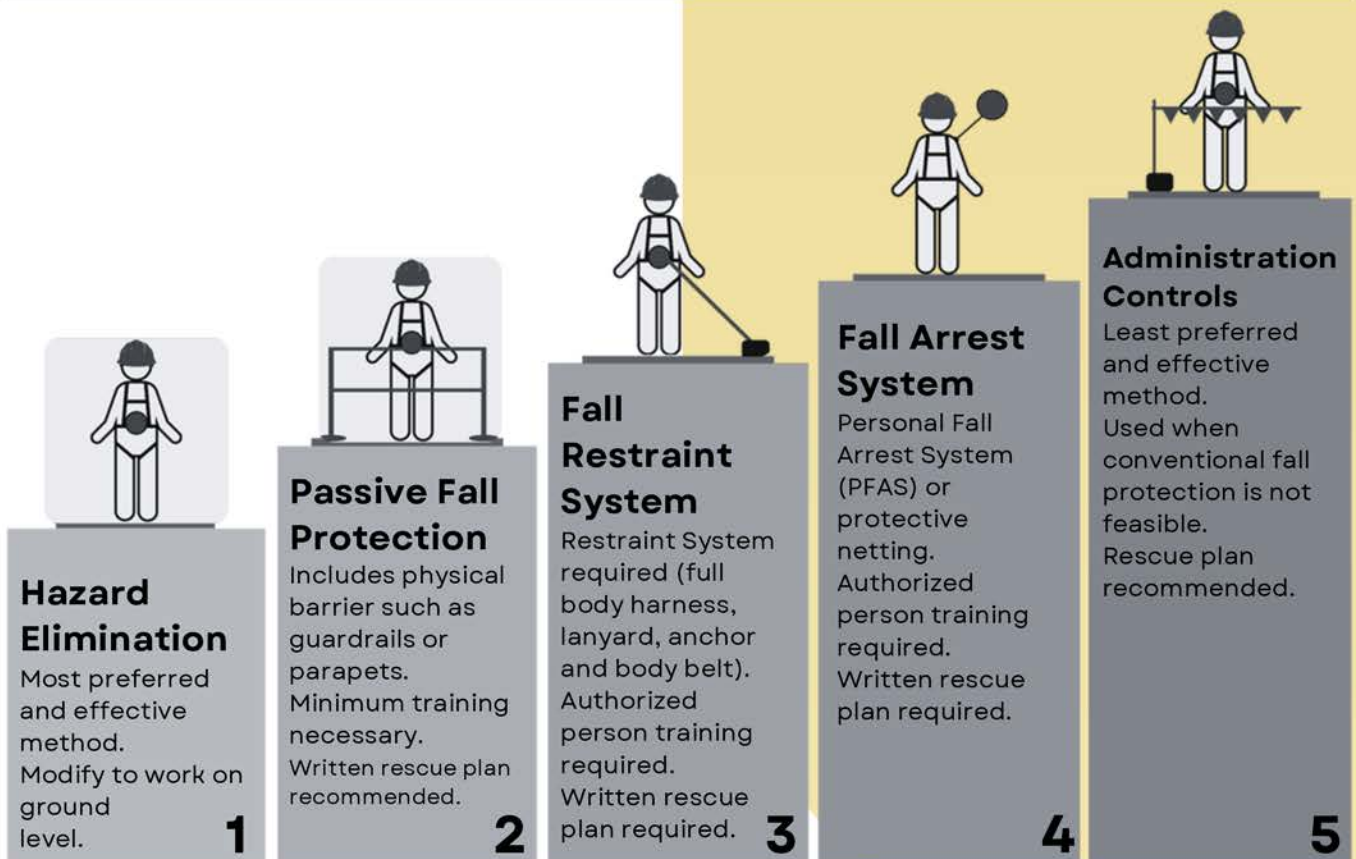
Ensure employees working at heights meet training requirements and possess necessary skills. Recognize the scope and hazards of the work, and apply the hierarchy of controls when assessing such tasks.

UNDERSTANDING FALL PROTECTION

Hierarchy of Control



Hierarchy of Fall protection



UNDERSTANDING FALL PROTECTION

Calculating Fall Clearance

Shock Absorbing Lanyard

Fall clearance is the distance required to prevent workers from hitting the ground or lower level, in case of a fall.

Here is how to calculate fall clearance:

Required Distance = Lanyard Length + Deceleration Distance + Height where work is happening + Safety Factor

Correct calculation ensures that the operator's fall arrest system will activate so they are not injured by coming into contact with any obstructions below.

RD = FFD + DD + C

RD = Required Distance

Working surface to Nearest Obstruction

FFD = Free Fall Distance

2.0m Maximum allowed

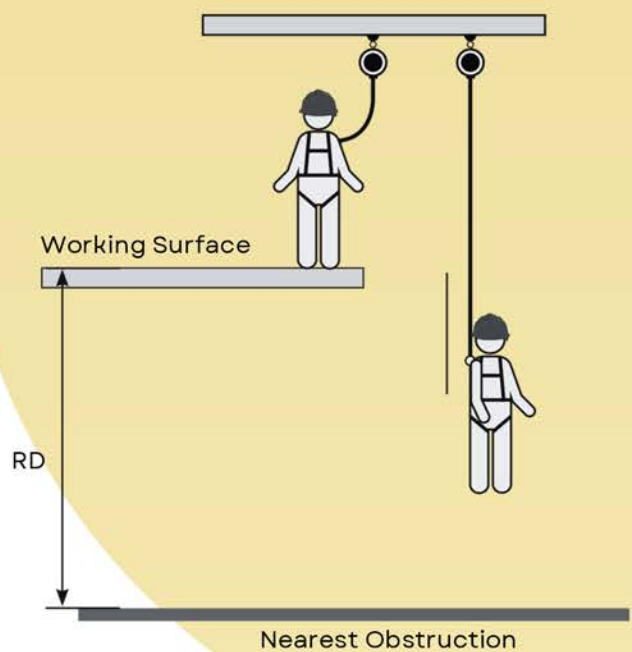
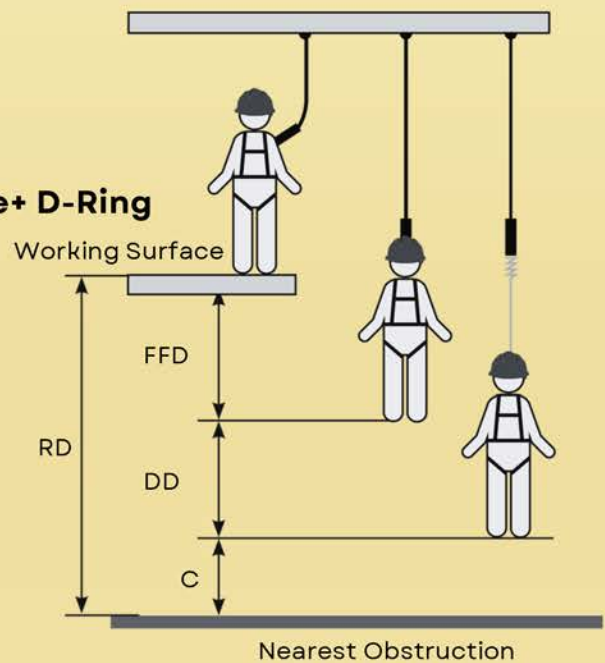
DD = Energy Absorber Deceleration Distance + D-Ring

Slide and Harness Stretch

C = Clearance to Obstruction During Fall Arrest

(1.0m minimum safety factor required)

FFD	Extension
600mm	300mm
1000mm	500mm
1500mm	600mm
2000mm	900mm

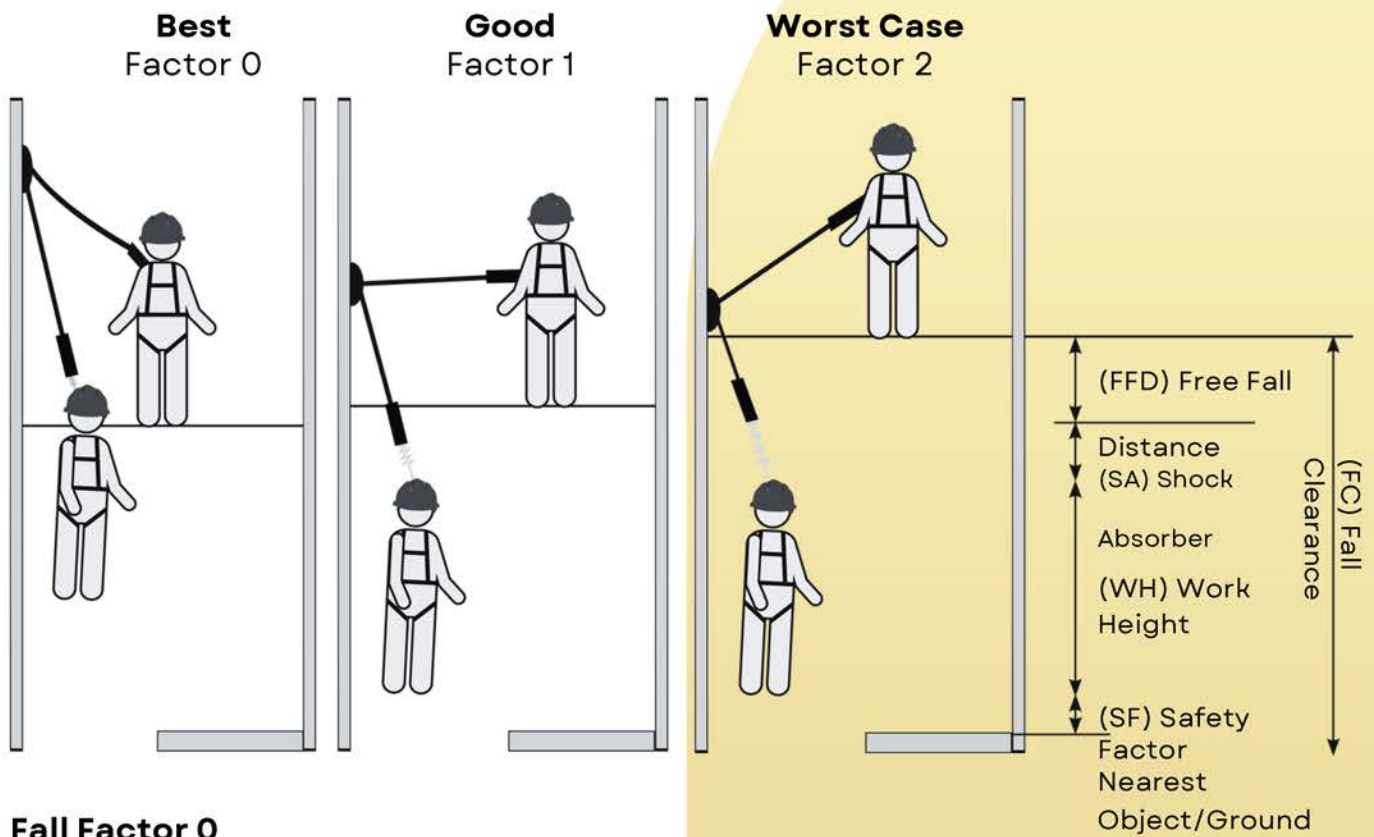


Self Retracting Lifeline

RD = Required Distance is 2.0m

Required distance below working surface to Nearest Obstruction

UNDERSTANDING FALL PROTECTION



Fall Factor 0

Indicates that you have reduced as much free fall distance as possible by attaching your lanyard above you.

Fall Factor 1

Indicates your anchor point is at the same level as your attachment point on the harness. This means that you will potentially fall the full length of your lanyard (2m on a 2m lanyard).

Fall Factor 2

Is the worst case scenario, where you are anchored at your feet. This means you will fall up to twice the length of your lanyard. A total of 6.75m clearance would be required when using a 2m Lanyard.

Definitions of Fall Protection Systems

A Fall Protection System is designed to control and protect users from falls or to minimize injury if a fall occurs. It consists of components that protect users from falls from heights.

- A body holding device - A full body harness, sitting harness, work positioning belt, rescue harness, rescue loop.
- An anchor device which can be connected to a reliable anchorage point.
- A connecting Element - A lanyard, fall arrestor, Self retracting Life line that connects the harness to the anchor.

UNDERSTANDING FALL PROTECTION

Fall Arrest

A Fall Arrest System prevents free falls and limits maximum forces on the user to 6kN or less. Free fall occurs when the fall distance exceeds 600mm before the system engages, either vertically or on a slope requiring assistance to walk.

Requirements

- Full-body harness lanyard or fall-arrest device which will limit free fall to 2.0m max.
- 12kN ultimate strength anchorage or equivalent horizontal lifeline or rail.

Typical Application



Limited Free Fall

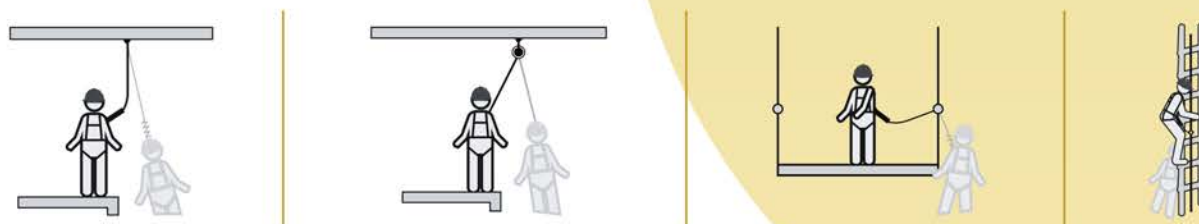
A combination of anchorage placement and Lanyard length which will permit only a limited free fall (<600mm).

Requirements

- Full-body harness lanyard or fall-arrest device that will limit free-fall 600 mm max.
- 12kN ultimate strength anchorage or equivalent horizontal lifeline or rail.

Typical Application

Any situation where the use of either a short lanyard or a fall-arrest device (or both where applicable) will limit any free fall to 600 mm.



UNDERSTANDING FALL PROTECTION

Restraint Technique

A fall-arrest system combines anchorage placement and adjustable lanyard length to prevent operators from reaching fall risk positions unless incorrectly adjusted. It controls movement by connecting a person to an anchorage with an adjustable lanyard, ensuring they cannot fall freely or partially.

Requirements

Where any possible fall will only be a limited free fall (<600 mm):

- A lower-body harness.
- Anchorage with ultimate strength 12 kN.

All other cases:

- A full-body harness.
- Anchorage with ultimate strength 12 kN.

Typical Application

Any scenario allowing access to work on a stable surface without fall risks, assuming proper equipment adjustment.



Total Restraint

A system where no fall is possible.

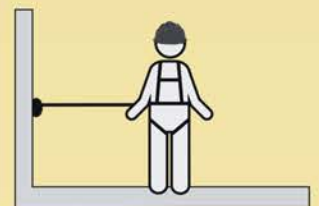
Requirements

Full Body Harness

Adjustable Lanyard to prevent the user from reaching areas or positions where the risk of a fall from a height exists. (Lanyards without shock absorbers are allowed).

Typical Application

Total Restraint is the method of controlling a person's movement by anchoring them to prevent falls from edges, surfaces, or unstable platforms.



UNDERSTANDING FALL PROTECTION

Work Positioning

A Work Positioning System is designed to hold the user at a work location and limit free fall to 600mm, but it should not be used for fall arrest. It assumes users have adequate training to manage additional risks. A Restrained Fall involves using equipment like a harness and adjustable lanyard to maintain a restraint condition as the distance to a potential fall zone changes.

Requirements

Full-body or lower-body harness and pole strap.

Typical Application

Working on a pole where no more than 600mm maximum free fall is possible.



Rope Access / Working in Suspension

A Suspension System is designed to suspend and support the user while being transported (raised up or down) vertically and does not allow free fall. After a fall in a full body harness, the user may be suspended in a position that they can not recover themselves from, like over the edge of a platform. The rescuers will setup the rescue kit, attach the rescue system to the victim and detach them from their fall arrest device, raise or lower them to safety.

Requirements

Full-body harness featuring two fall arrest attachment points: a primary attachment for suspension and a secondary backup system. For extended suspension work, a podium seat may be necessary. The ventral (waist) attachment points on the harness are ideal for suspension use. Ensure that anchor points are rated to 12kN, or utilize a tripod or davit system. A 12kN anchor point is essential if there is a risk of a fall greater than 600mm.

Typical Application

Confined space work where you may be required to be lowered or lifted out of a tank. Window Cleaning Painting



UNDERSTANDING FALL PROTECTION

Rescue and Evacuation

A Rescue system is designed to raise or lower a user to safety in the event of an emergency. No free fall should be possible.

Requirements

A full body harness, a suitable anchorage point to ensure the rescuer is safe. A rescue system that can either raise or lower the rescued user to safety. A backup fall arrest system for the rescuer, suitable anchor points rated to 15kN.

Typical Application

Rescuing a worker who has taken a fall who cannot climb to safety.



Understand Your Work Application

Work Application

Before working at height a full risk assessment and job safety Analysis shall be completed to understand the proper use and limitations of PPE equipment.

Equipment Used: PPE Products, Harness, Connector, Anchor.

Be Aware of The Following Safety Point

Roof Work

- Confirm anchor points are installed, fitted, and certified.
- Ensure the rope line is taut between anchor points when using rope and grabs.
- Connect the shock absorber to the harness and rope grab with a karabiner.
- Use rear or frontal fall arrest attachment points on the harness consistently.
- All fall arrest points on a harness are marked with "A."
- Use a suitable anchorage system if anchor points are unavailable, ensuring it can withstand a fall.



Equipment Used: Full body harness with rear or frontal Fall arrest attachment points, Approved rope & rope adjuster with shock absorber pack. Temporary metal roof anchor or Anchorage sling.

UNDERSTANDING FALL PROTECTION

Ladder Work

- Certify and maintain fixed ladder safety lines before use.
- Secure mobile ladders with certified brackets.
- Use certified anchor systems and ensure safety rope lines are tied off properly, with rope grabs attached to harness connection points using a karabiner.
- Always wear a full body harness and twin lanyard with a shock absorber when working on ladders.

Equipment Used:

- Full body harness (rear or frontal fall arrest attachment points)
- Twin lanyard with shock absorber
- Approved rope & rope adjuster
- Anchorage sling
- Certified ladder



Construction & Maintenance

- Ensure anchor points are properly installed, fitted, and certified.
- Keep the rope line taut between anchor points when using rope and rope grabs.
- Regularly service fall arrest systems to ensure they are functional.
- Use single or twin elasticated lanyards with a shock absorber.
- Utilize rear or frontal fall arrest attachment points on your harness when working at heights.

Ensure static lines are certified and in good working condition.

Equipment Used:

- Full body harness (rear or frontal fall arrest attachment points)
- Single or twin lanyard with shock absorber Suitable inertia device

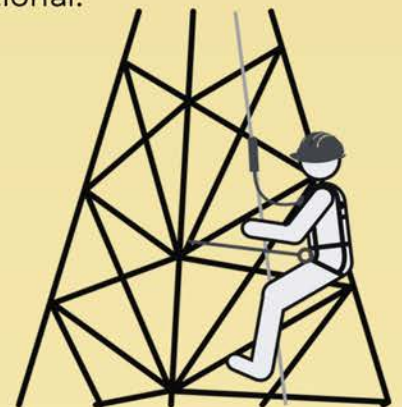


Tower Work

- Confirm proper installation and certification of anchor points.
- Keep the rope taut from anchor points when using rope and grabs.
- Regularly service fall arrest equipment for functionality.
- Use a rear fall arrest harness with twin lanyard and belay loops at heights.
- Ensure permanent ladder systems are certified and functional.

Equipment Used:

- Full body tower worker's harness
- Twin tie-back lanyard with shock absorber
- Work positioning lanyard
- Approved rope adjuster
- Adjustable pole straps
- Anchorage sling
- Temporary horizontal lifelines
- Self-retracting lifelines

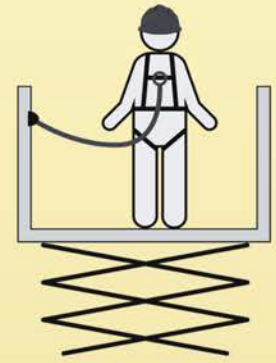


UNDERSTANDING FALL PROTECTION

Elevated Work Platforms

- Confirm anchor points and elevated work platforms are installed, rated, and certified.
- Regularly inspect and maintain fall arrest equipment for proper condition.
- Utilize rear fall arrest attachment points on your harness with a lanyard when working at heights.

Equipment Used: Full body harness with rear or frontal Fall arrest attachment points, Single lanyard with shock absorber.

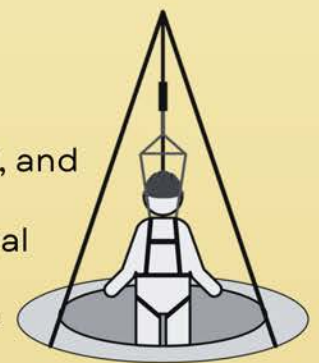


Confined Space & Rescue

- Regularly inspect and service confined space and rescue equipment.
- Ensure tripod or davit systems are properly installed, fitted, and certified.
- Inspect the Confined Space Harness, Type 3 Rescue retrieval SRL, inertia reel, and rescue winch before use.
- Utilize rescue loops for operations with the confined space harness.
- Use arm straps with the spreader bar during rescues.

Equipment Used:

- Full body confined space harness with rear fall arrest attachment points
- Shoulder confined space loops
- Type 3 rescue device
- Winch
- Confined space spreader bar Tripod or davit arm



Rescue & Evacuation

Before working at heights, create a rescue plan and select a suitable rescue kit for the environment. Regularly inspect fall arrest equipment to ensure its condition. Use front or rear harness attachment points for better control and visibility during rescues.

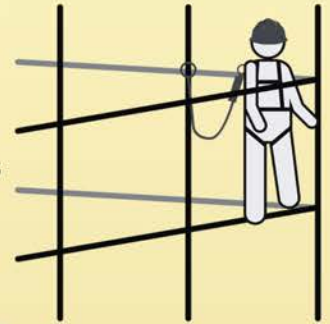
Equipment Used: Full body harness with rear or frontal Fall arrest attachment points, Shock absorbing lanyard, rescue kits and a rescue pole, Suitable anchor point.



UNDERSTANDING FALL PROTECTION

Scaffolding

- When connecting to scaffolding, ensure the anchor point can support 15 kN.
- Regularly check the maintenance of fall arrest equipment.
- Use the rear fall arrest attachment points of your harness with twin lanyards and scaffold hooks when working at heights.
- For lower scaffolding, twin retractable units attached to the back D-ring of the harness may be preferable due to a reduced fall factor.



Equipment Used: Full body harness rear or frontal Fall arrest attachment points, Twin shock absorbing lanyard or twin retractable lanyard with scaffold hooks.

Warehousing

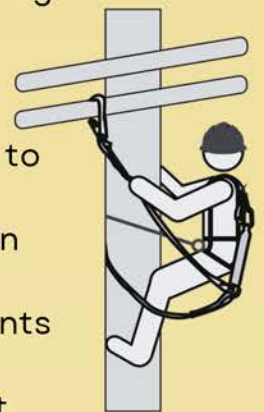
- Ensure anchor points on the elevation cage are properly installed and certified.
- Regularly inspect and service fall arrest equipment to ensure it's in good condition.
- Use the rear fall arrest attachment point with a retractable webbing lanyard to minimize fall factor while maximizing movement range.



Equipment Used: Full body harness with rear or frontal Fall arrest attachment points, Retractable Lanyard, Accessible anchor point or anchor sling.

Utilities

- Ensure when connecting to the cross arm of the pole it is able to sustain the force of a limited fall (12kN).
- Ensure fall arrest equipment has been regularly serviced and in good working condition.
- Make sure you utilize rear or frontal Fall arrest attachment points of your harness with shock absorbing lanyard and pole strap attachments with pole strap on your harness whilst working at heights.
- Always ensure you are connected, the use of two pole straps will allow for the transition from below to above the cross arm beam while maintaining one connection at all times.

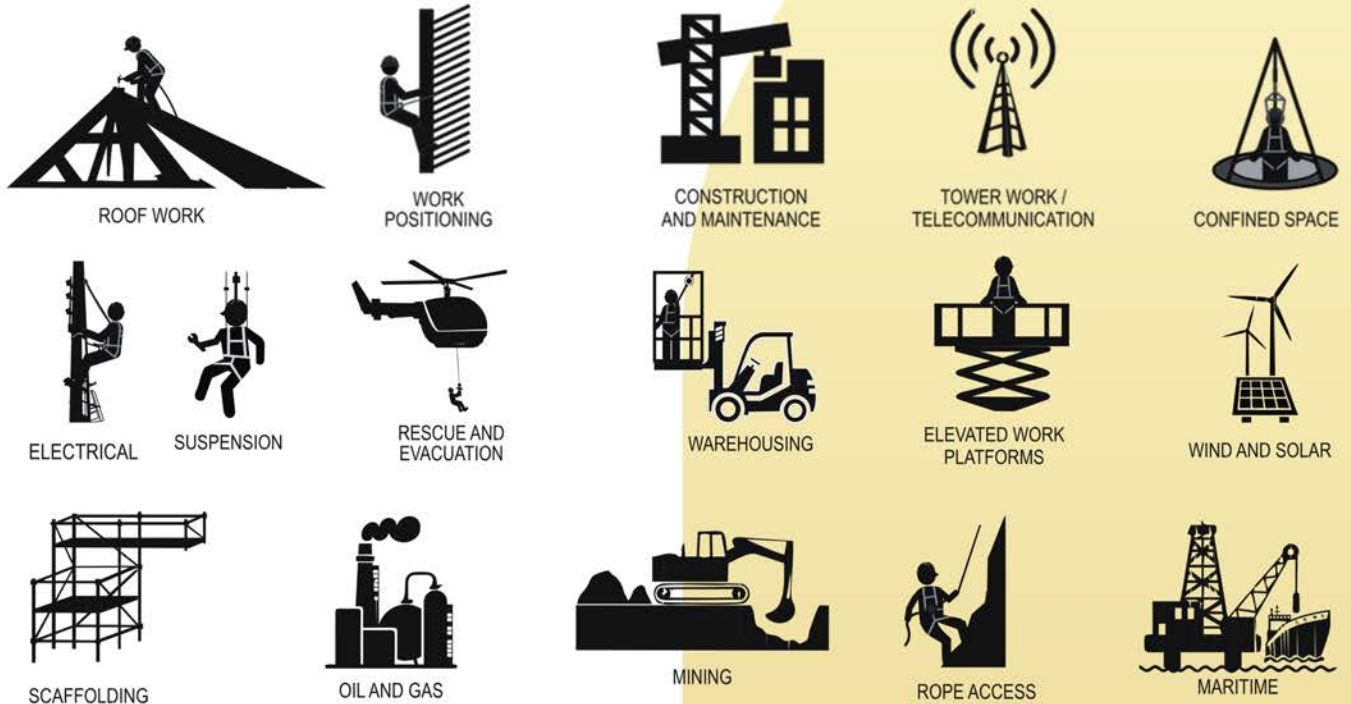


Equipment Used:

- Full body harness with rear or frontal fall arrest attachment points
- Pole strap attachment points
- Pole strap Secondary fall arrest lanyard.

UNDERSTANDING FALL PROTECTION

PPE Applicable in Industries



Height Safety Training and Consultation Services

PG provides a variety of courses for individuals working at heights or in confined spaces, catering to all skill levels. Their training ranges from basic height safety to advanced confined space training. The professional team offers advice to facility managers, contractors, and maintenance technicians on safe practices and height safety systems. They also conduct site visits to help businesses prepare for height safety activities.

Guidelines for Periodic Assessments

- Regular periodic examinations of PPE are required per EN 365 of PPE Regulation 2016 to ensure user safety.
- Personal protective equipment must be examined at least once every 12 months by the manufacturer or authorized representative.
- Examination results should be recorded on the equipment's check card, and the next due date for inspection determined.
- Inspections should verify the legibility of markings, check metals for sharp edges, corrosion, and proper functioning of mechanisms.
- Webbing/ropes must be inspected for breakage, fraying, chemical exposure, and other damage affecting performance.
- Equipment must be discarded according to disposal instructions when necessary.
- Annual examinations confirm proper functioning and are mandatory.
- Equipment used to arrest a fall must be withdrawn from use.

UNDERSTANDING FALL PROTECTION

Removal of Equipment from service

A 12-month service or inspection is due if:

- There has been a fall.
- Labels are missing or illegible.
- Excessive abrasive wear is present.
- Broken fibers, tears, cuts, or weld burns are visible.
- Deterioration or stretching has occurred.
- There is loss of resilience, discoloration, or visible damage.
- Parts are not moving freely or are corroded.
- There is a reduction in rope or webbing cross-section.
- Excessive contamination remains after cleaning.

Instructions For Maintenance

Cleaning:

Personal protective equipment requires careful cleaning to protect its materials. Use a cotton cloth or soft brush for textiles and plastic parts, avoiding abrasive materials. For intensive cleaning, wash harnesses at a maximum of 40°C with neutral detergent and dry in the shade. Wipe metallic parts with a wet cloth, and allow wet equipment to dry naturally, away from direct heat.

Storage:

Personal protective equipment (PPE) should be stored in a loosely packed manner, in a dry and well-ventilated area. It is essential to keep it protected from direct sunlight, UV degradation, dust, sharp edges, extreme temperatures, and harsh substances. Whenever possible, try to retain PPE in its original packaging.

Repair:

Repairs should be performed exclusively by the equipment manufacturer or their authorized representative, adhering to the manufacturer's procedures. Please separate the equipment into three distinct crates, designating them for Textile, Metal, and Plastic components respectively.

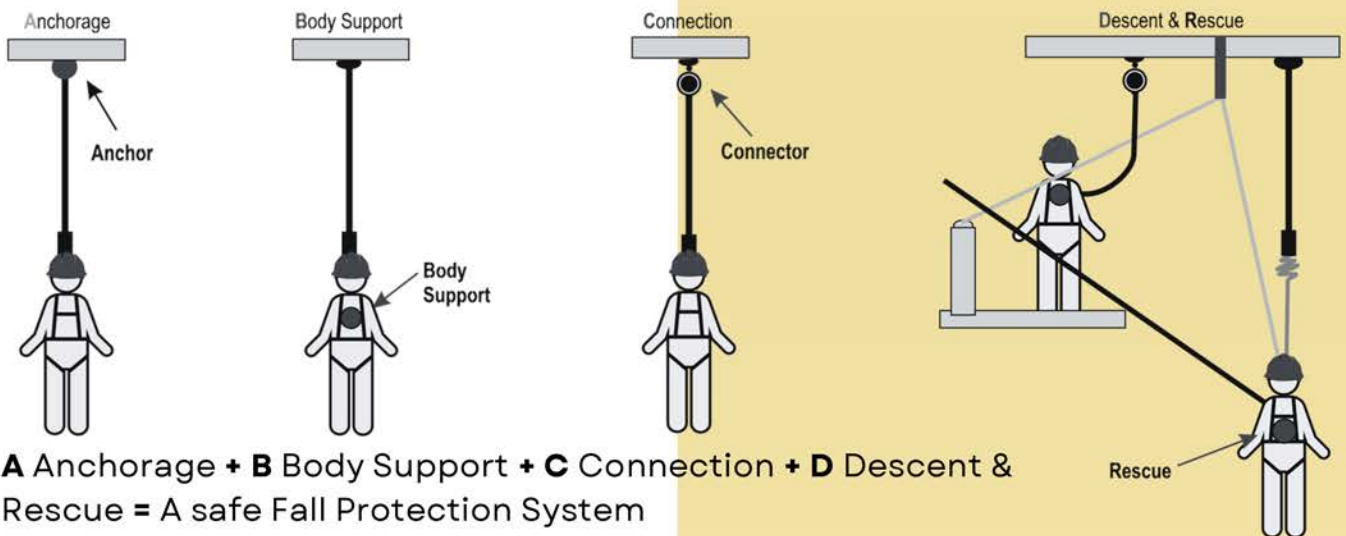
UNDERSTANDING FALL PROTECTION

The ABCDs of Fall Protection

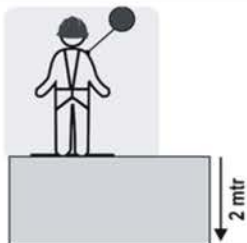
To ensure safety when working at heights, familiarize yourself with the ABCD's of fall protection for a secure fall protection system.

- **Anchorage:** An anchor is a device that completes the fall arrest system by securing the user to a structure, whether fixed or mobile.
 - Types of Anchors: Horizontal lifelines, fixed anchors, beam anchors, and anchor straps.
- **Body Support:** The full body harness serves as the primary connection between the user and the shock-absorbing attachment through its attachment points.
 - Types of Harnesses: Rescue harnesses, construction harnesses, and tower harnesses.
- **Connecting Device:** This device links a full body harness to an anchor and serves as a vital connecting element within the system.
 - Types of Attachments: Shock-absorbing lanyards, restraint lanyards, rope lines, and fall arrest blocks (SRLs).
- **Descent & Rescue:** In case of a fall, a robust rescue plan must be in place to ensure the user can descend, ascend, or be rescued safely without putting themselves or others at risk.

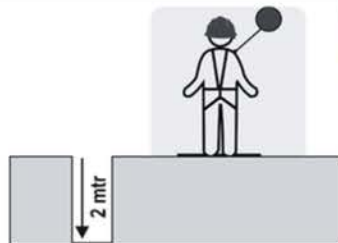
Types of Rescue Equipment: Rope rescue kits, tripods, and davit systems.



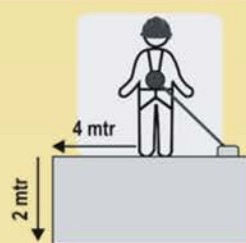
When to use Fall Protection



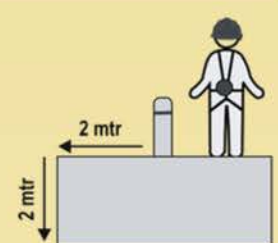
Fall Protection Equipment must be utilized whenever a worker is operating at a height exceeding 2 meters.



Fall protection equipment must be utilized when a worker is operating close to the edge of an open pit or hole.



If a Fall Arrest System cannot be utilized, then a Restraint System should be used as a minimum requirement.



Whenever possible, utilize a physical barrier (passive protection) when working close to an edge.

UNDERSTANDING FALL PROTECTION

Standards



EN 341 PPE against Falls from a Height
Descender Devices



EN 353-1,2 PPE against Falls from a Height
Guided Fall Arresters



EN 354 PPE against Falls from a Height
Equipment Lanyards



EN 355 PPE against Falls from a Height
Energy Absorbers



EN 358 PPE for **Work Positioning**



EN 360 PPE against Falls from a Height
Retractable Fall Arrester Blocks



EN 361 PPE against Falls from a Height
Full body Harnesses



EN 813 PPE against Falls from a Height
Sit Harness



EN 15151 Mountaineering equipment
Breaking Devices



EN 1496 Rescue Equipment
Rescue Lift System



EN 1497/ EN 1498 Rescue Equipment
Rescue Harnesses



EN 1891 PPE against Falls from a Height
Kernmantle Ropes



EN 892 PPE against Falls from a Height
Stretchable Ropes



EN 12277 Mountaineering
Harness



EN 12841 Rope
Access System



EN 567 Mountaineering
Rope Clamps



EN 362 PPE against Falls from a Height
Connectors



EN 795/ EN 795/A1 PPE against Falls from a Height
Anchor Devices



EN 12278 Pulley



EN 12492 Mountaineering
Helmet



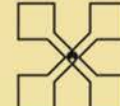
EN 397 Industrial
Safety Helmet



EN 566 Slings



EN 795 Type B Stationary Anchor Points While In Use, And With The Need For A Structural Anchor



EN 795 Type E Performance Relies Solely on Mass and Friction



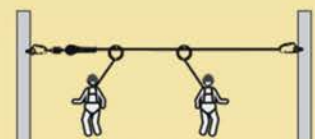
EN 795 Type A Stationary Anchor Points While In Use, And With The Need For A Structural Anchor



EN 795 Type C Flexible Anchor Line



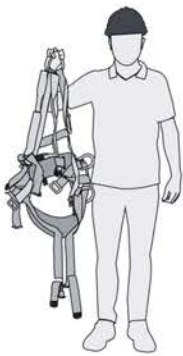
EN 795 Type D Rigid Anchor Line



TS 16415 Anchors for more than 1 users

HARNESSES

How to wear a Harness?



Step-1

Untangle the harness by holding it from the dorsal D-ring.



Step-2

Slip harness over shoulders and close the buckle on the chest.



Step-3

Close the buckle on the waist strap if Harness has waist belt.



Step-4

Pull the leg straps one by one round your thighs outwards to your front.



Step-5

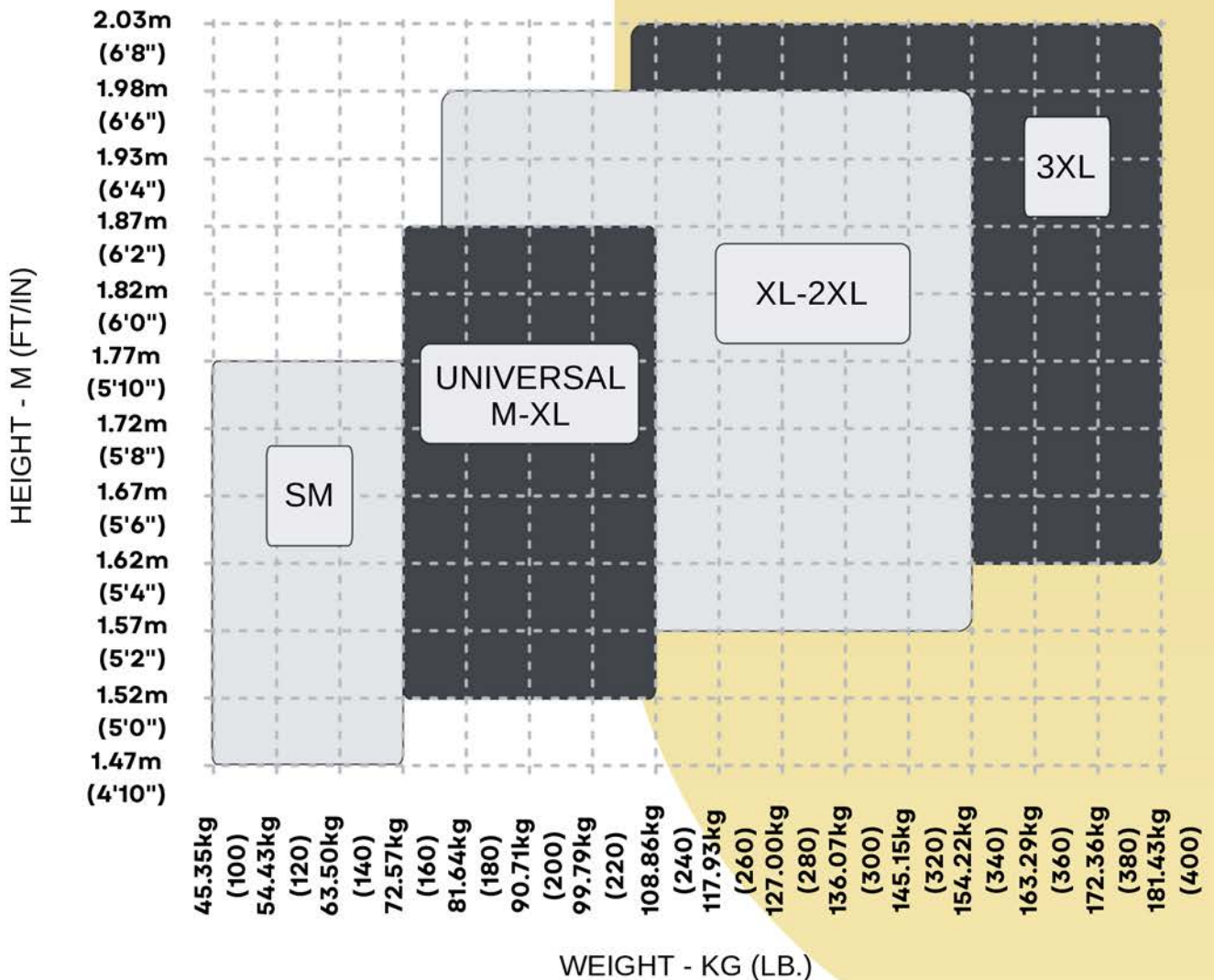
To check and adjust all the straps of the harness to your body adjustment.



Step-6

Now ready to work.

Harness Sizing Chart



Attachment Points of Harness and its Uses

The dorsal attachment point

on the harness, located on the ID plate between the shoulder blades, is designed for fall arrest. It evenly distributes fall forces and is suitable for standard site work or platform tasks where climbing or work positioning is not required.



Sternal Attachment Point

Ergonomically placed Sternal D ring on the chest area of the Harness is used as a front attachment point for fall protection when using a guided type fall arrester while climbing or entering a confined space.



Lateral Attachment Point 2

The lateral D-rings situated on the sides in the lower waist area of the harness are designed for work positioning. They enable a worker to keep both hands free for tasks while staying connected to the work area. It's important to highlight that these attachment points are not intended for fall arrest; rather, this system serves as a means of fall restraint.



Ventral Attachment Point

This attachment point is located in the center of the waist level of the Harness. It is used for rope access, rescue and many other applications.



Extension Strap Attachment Point

The Extension Band allows the user to easily connect to or disengage the Dorsal attachment D-ring without any external help. It is suitable for standard site work or platform working, where the worker only needs to be attached with no other requirement for climbing, work positioning and roof work.



Rescue Attachment Points

Located on shoulders of harness in the form of webbing loops or steel D-rings. Allowing easy attachment of Spreader bar. Used for confined space entry/exit and rescue and retrieval.



'A' Attachment Point

The Labels marked as 'A' denote the Attachment points on the Harness. In certain areas the labels are marked 'A/2', meaning that two similar points held together shall constitute a single Attachment point.





VERTICAL LIFFLINE SYSTEMS



Top Anchor Set

- A Top anchor bracket
- B System energy absorber

Intermediate Set

- A Hands Free wire guide
- B Stainless steel cable \varnothing 8mm

Bottom Anchor Set

- A Bottom anchor bracket
- B Cable clamp and tensioning device

Vertical Anchorage Line System on Rigid Cable Line

Ref: PGL-700

EN 353-1:2014+A1:2017

Optional

Mounting Bracket Ref. PGL-MB-700

- Material: Stainless Steel 316
- Breaking Strength > 23 kN
- Compatible with rung diameter: Ø25.0mm - Ø96.0mm
- Complies with EN 795 Type A



Mounting Bracket Ref. PGL-MB-701

- Material: Stainless Steel.
- Minimum Breaking Strength: 23 kN
- Compatible with rung diameter - Ø22.0mm - Ø114.0mm



Intermediate Ref. PGL-I-200

- Material: Stainless Steel Grade 316
- Recommended Installation - Every 10m
- Compatible with rung diameter: Ø18.0mm to Ø35.0mm



Wire Rope Cap Ref. PGL-WRC-700

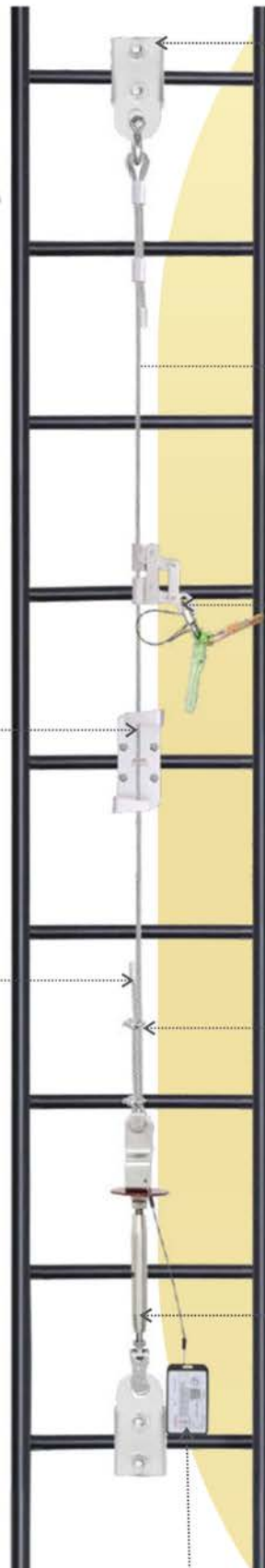
- Material: Aluminium Alloy



Optional

Tensioner Ref. PGL-T-700 S

Regulates tensioning of the cable
Equipped with a Tension Indicator
Material: Stainless Steel Grade 316



Optional

Extension Arm (Finish-ED Coating Black) -
Ref.: PGN 7000(06)
Length : 2108.0 mm and Weight: 7.670 kgs

Mounting Bracket Ref. PGL-MB-702

- Material: Stainless Steel.
- Breaking Strength > 23 kN
- Compatible with rung diameter: Ø16.0mm to Ø42.0mm



Wire Rope Ref. PG-WR-08

(where XXX is the length of the wire rope in meters)

- Material: Stainless Steel 316
- Diameter: 8mm
- Construction: 7x19
- D Shackle: Stainless Steel



Rope Grab Ref. PGL-RG-200

- Material of Rope Grab: Stainless Steel Grade 316
- Finish: Shot blasted and Electro polished Anti inversion mechanism
- Material of Karabiner: Alloy Steel



Shock Absorber

Set of 2 U-Bolts and 1 Thimble Ref. PGN 6000(01)

- U- Bolts : Qty- 2 nos.
- Material : Stainless Steel 316
- Thimble : Qty- 1 nos.
- Material : Stainless Steel 316



Tensioner Ref. PGL-T-700

- Regulates tensioning of the cable Equipped with a Tension Indicator
- Material: Stainless Steel Grade 316 Quantity: 1 nos.



RFID Tag



VERTICAL Lifeline systems

Applications

- Telecom Towers
- Industrial Ladders
- Power Transmission
- Tower Chimney Ladders

Top / Bottom Bracket PG-BB 100

Material : SS 316/ SS 304
Finishing : Powder Coating
Range : B.S > 2 3 k N.
Conformity : EN 795 Class A1.



Wire Rope Endcap PG-WRE-10

- Material : Aluminium Alloy
- Finishing : Turning Finish Cut.



Wire Rope PG-WR-08

- Material : SS 316 / 316L / 304
- Diameter : 8 mm
- Construction : 7 X 19
- Range : B.S > 36k N



Cable Extremities Thimble

Material : SS 316/ SS 304
Finishing : Plating
Range : for 8mm SS Wire rope
Quantity : 1 Nos.

U Bolt

Material : SS 316/ SS 304
Finishing : Plating
Range : for 8mm SS Wire rope
Quantity : 3 Nos



Cable Extremity- PG-CE-106

Swage Terminal

Material : SS 316/ SS 304
Finishing : Plating
Range : for 8mm SS Wire rope



Swage less Terminal

Material : SS 316/ SS 304
Finishing : Plating
Range : for 8mm SS Wire rope



vertical system

Shock Absorber PG-SA-300

Material : SS 316/ SS 304
Finishing : Plating with shrink sleeve
Range : Limits the impact of force to less than 6kN.



Intermediate Bracket PG-IB- 03

Material : SS 316/ SS 304
Finishing : Plating



Tensioner PG-T-101

•Material : SS 316/ SS 304
•Finishing : Plating with shrink sleeve
•Range : Limits the impact of force to less than 6kN.



Representation of Assembled Kit



VERTICAL LifLine systems

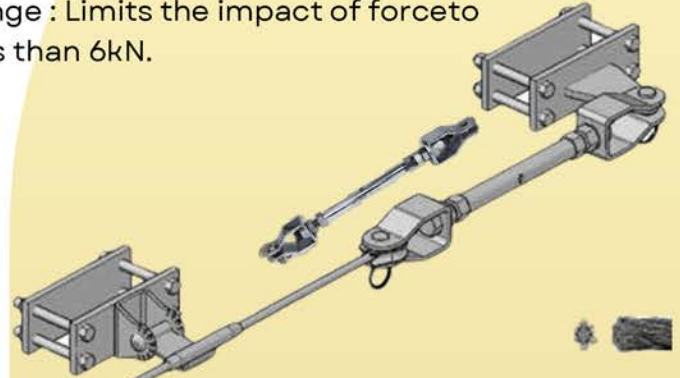


End Clamping Post PGL-ECP-100

- Material : SS 316/ SS 304
- Finishing : Powder Coating

Tensioner PGL-T-400

- Material : SS 316/ SS 304
- Finishing : Plating with shrink sleeve
- Range : Limits the impact of forceto less than 6kN.



Shock Absorber PGL-SA-300

- Material : SS 316/ SS 304
- Finishing : Plating with shrink sleeve
- Range : Limits the impact of force to less than 6kN.

Wire Rope Endcap PG-WRE-10

- Material : Aluminium Alloy
- Finishing : Turning Finish Cut.

Wire Rope PG-WR-08

- Material : SS 316 / 316L / 304
- Diameter : 8 mm
- Construction : 7 X 19
- Range : B.S > 36 kN



Runner PGL-DPR-600 (Double pulley runner)

- Material : SS 316/ SS 304
- Finishing : Plating.
- Recommended : for intermediate.



PGL-TPR-600

(Tandem pulley runner)

- Material : SS 316/ SS 304
- Finishing : Powder coating
- Recommended : For lifeline without intermediate



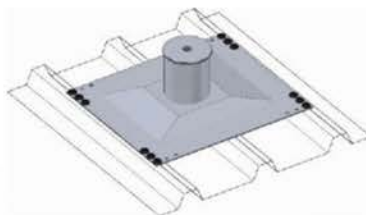
HORIZONTAL LIFFLINE SYSTEMS



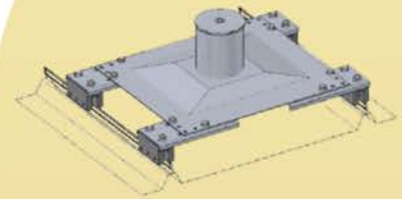


TYPES OF ROOF LIFELINE CONNECTION

Post to sheet connection

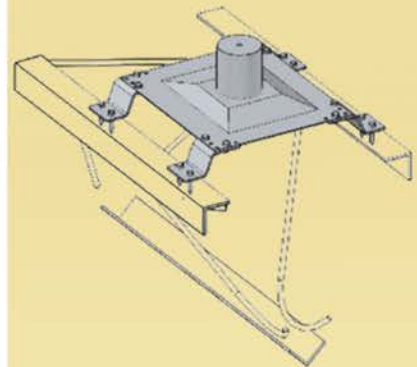
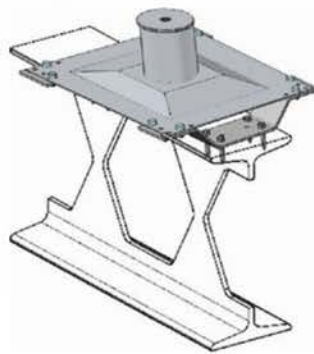


Penetrating

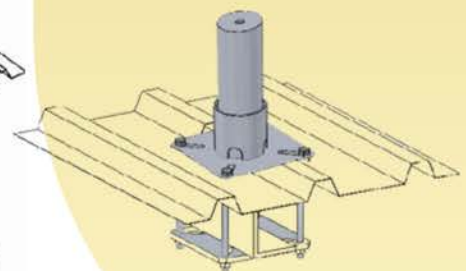
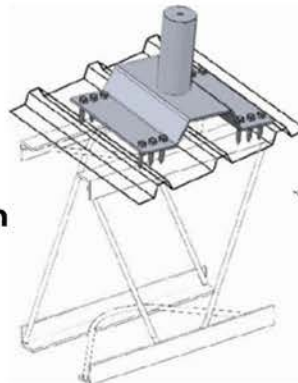


Non Penetrating

Post to purlin connection



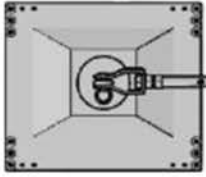
Post to sheet to purlin connection



End Bracket PGL-EB-200

Material : SS 316/ SS 304

Finishing : Powder Coating

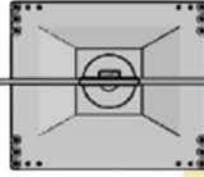


Turn Bracket PGL-TB-204

Material : SS 316/ SS 304

Finishing : Plating

Range : Turn lifeline to 90



Tensioner PGL-T-400

- Material : SS 316/ SS 304
- Finishing : Plating with shrink sleeve
- Range : Limits the impact of force to less than 6kN.

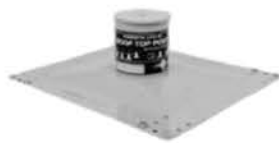
Fragile roofs



Standing seam



Trapezoidal roofs



Runner PGL-R-600

- Material : SS 316/ SS 304
- Finishing : Plating
- Range : for 8mm SS Wire rope

Cable Extremity- PG-CE- 500



Swage Terminal

- Material : SS 316/ SS 304
- Finishing : Plating
- Range : for 8mm SS Wire rope



Swage less Terminal

- Material : SS 316/ SS 304
- Finishing : Plating
- Range : for 8mm SS Wire rope



Thimble

- Material : SS 316/ SS 304
- Finishing : Plating
- Range : for 8mm SS Wire rope

Wire Rope Endcap PG-WRE-10

- Material : Aluminium Alloy
- Finishing : Turning Finish Cut.

Wire Rope PG-WR-08

- Material : SS 316 / 316L / 304
- Diameter : 8 mm
- Construction : 7 X 19
- Range : B.S > 36 kN



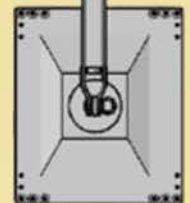
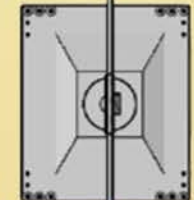
Intermediate Bracket PG-IB- 03

- Material : SS 316/ SS 304
- Finishing : Plating.
- Recommended : for Roof top lifeline only



Shock Absorber PGL-SA-300

- Material : SS 316/ SS 304
- Finishing : Plating with shrink sleeve
- Range : Limits the impact of force to less than 6kN.



ANCHOR FOR HORIZONTAL LIFELINE



PGL-Lock-SS-101

- Material : SS 316/ SS 304
- Finishing : Plating



PGL-Lock-SS-201

- Material : SS 316/ SS 304
- Finishing : Plating



PGL-AP-SS-201

- Material : SS 316/ SS 304
- Finishing : Plating



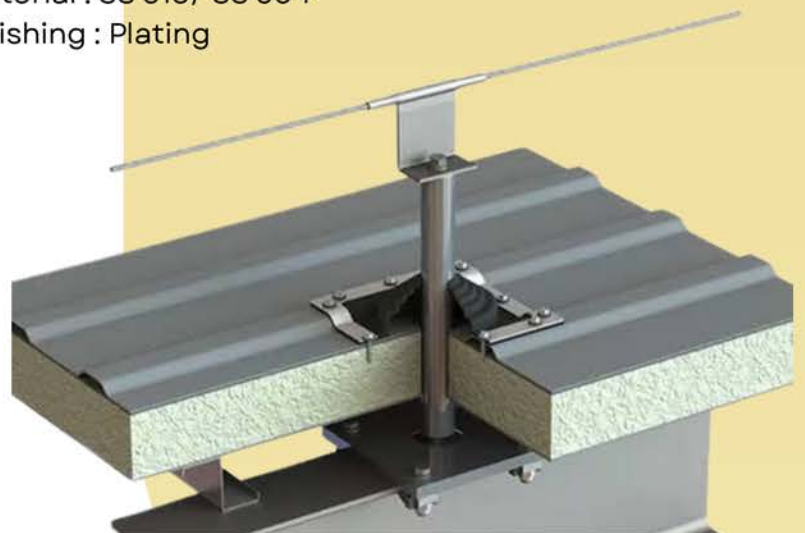
PGL-Lock-SS-301

- Material : SS 316/ SS 304
- Finishing : Plating



PGL-BeamClamp-101

- Material : SS 316/ SS 304
- Finishing : Plating



PGL-Lock-SS-701

- Material : SS 316/ SS 304
- Finishing : Plating

FIXED ANCHORAGES



Anchor Post
Ref. PGL-AP-100

- The anchor is designed for fixing on metal I BEAMS to install a horizontal lifeline.
- It features an adjustable base for various beam sections and is easy to install using M12 nut and bolt.
- The post includes an M12 tapped bush for fixing connectors like swivel D-ring or eye bolt as anchorage points.
- It is compatible with a flange width of 150.0mm.



Anchor Post
Ref. PGL-AP-301

- The anchor is designed for installation on metal I-beams for horizontal lifelines.
- It features an adjustable base for different beam sections and can be easily installed using M12 nut and bolt.
- The post includes a pre-installed eye bolt for connections and is compatible with flange widths between 150mm and 220mm.



Anchor Post
Ref. PGL-AP-201

- The anchor is designed for fixing on metal I-beams to install a horizontal lifeline.
- It features an adjustable base for various beam sections and is easy to install with M12 nut and bolt.
- The post includes an M16 tapped bush for attaching connectors like swivel D-rings or eye bolts.
- It is compatible with flange widths from 150 mm to 220 mm.



Anchor Post
Ref. PGL-AP-401

- The anchor is designed for fixing on metal I-beams to install a horizontal lifeline.
- It features an adjustable base for different beam sections and is easy to install using M12 nuts and bolts.
- The post includes an M12 tapped bush for attaching connectors like swivel D-rings or eye bolts as anchorage points, compatible with a flange width of 150.0mm.

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-AP-100	Stainless Steel	Electropolished / E Coated	6.51 kgs± 0.20 kgs	15 kN.	EN 795: 2012 Type A
PGL-AP-101			7.18 kgs ± 0.20 kgs		
PGL-AP-201	Alloy Steel	Powder Coated Black	15.87 kgs± 0.20 kgs		
PGL-AP-202			17.85 kgs ± 0.20 kgs		
PGL-AP-203			16.15 kgs ± 0.20 kgs		
PGL-AP-301	Stainless Steel	Electropolished/E Coated	7.36 kgs ± 0.20 kgs	23 kN.	
PGL-AP-401	Alloy Steel	Powder Coated Black	18.15 kgs ± 0.20 kgs		

FIXED ANCHORAGES



Anchor Post
Ref. PGL-APS-101

- Anchor for fixing on metal I BEAM for horizontal lifeline installation.
- Adjustable base to fit different Beam sections.
- Quick installation using M12 nut & bolt.
- Comes with a pre-installed Swivel D-ring for connections.
- Compatible with flange widths of 150.0mm to 220.0mm.



Anchor Post
Ref. PGL-APS-301

- Anchor designed for fixing on metal I BEAM for horizontal lifeline installation.
- Features an adjustable base for different beam sections.
- Quick installation using M12 nut and bolt.
- Comes with a pre-installed eye bolt for connections.
- Compatible with flange widths between 150.0mm and 220.0mm.

Anchor Post
Ref. PGL-APS-201



- Anchor for fixing on metal I BEAM to install a horizontal lifeline.
- Base features an adjustable opening for different beam sections.
- Quick installation using M12 nut and bolt.
- Post includes M16 tapped bush for attaching connectors (D-ring, Eye bolt) as anchorage points.
- Compatible with flange widths from 150.0mm to 220.0mm.

Anchor Post
Ref. PGL-APS-401



- Anchor designed for fixing to metal I BEAM for horizontal lifeline installation.
- Features an adjustable base for different beam sections.
- Easy installation using nut & bolt (M12).
- Comes with a pre-installed D-ring for connections.
- Compatible with flange widths of 150.0mm to 220.0mm.

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-APS-101	Alloy Steel	Powder Coated Black	16.25 kgs ± 0.20 kgs	23 kN.	EN 795: 2012 Type A
PGL-APS-102			18.20 kgs ± 0.20 kgs		
PGL-APS-201			7.87 kgs ± 0.20 kgs		ANSI Z359.18:2017 Type A
PGL-APS-202			9.17 kgs ± 0.20 kgs		
PGL-APS-301			8.16 kgs ± 0.10 kgs.		
PGL-APS-302			9.45 kgs ± 0.10 kgs.		
PGL-APS-401			8.21 kgs ± 0.10 kgs.		
PGL-APS-402			9.55 kgs ± 0.10 kgs.		

FIXED ANCHORAGES



Anchor Post
Ref. PGL-APSS-101

- Anchor for horizontal lifeline installation on concrete, wood, or steel.
- Quick installation using M12 mechanical/chemical nuts and bolts.
- Features tapped bush for connectors like swivel D-ring or eye bolt.
- Compatible with flange width of 150.0 mm.
- Available length: 515 mm.

Concrete Anchor Plate with D-Ring
Ref. PGL-APSS-103



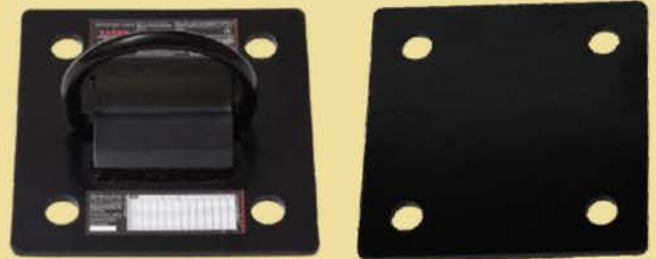
- Concrete forged D-Ring serves as an anchor point.
- Can be mounted horizontally or vertically using chemical fasteners and bolts.
- Installs quickly with 4 bolts.
- Features a lightweight design.

Anchor
Ref. PGL-APSS-102



- The Anchor serves as a mounting bracket for anchors or anchorage lines.
- It features an adjustable opening to fit steel angle structures from 75mm x 75mm to 200mm x 200mm.
- Suitable for fixing on corners of steel angle legs of lattice towers or similar structures.

Concrete Anchor with Fisher Plate
Ref. PGL-APSS-104



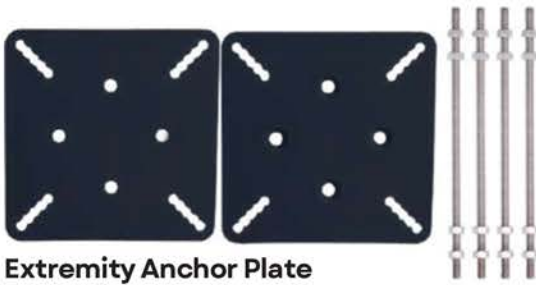
- Concrete forged D-Ring serves as an anchor point for horizontal and vertical mounting using chemical fasteners and bolts, with a fisher plate for I-Beam installation.
- Features a lightweight design.

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-APSS-101	Alloy Steel	Powder Coated Black	3.96 kgs ± 0.20 kgs	23 kN	EN 795: 2012 Type A
PGL-APSS-102	Alloy Steel	Powder Coated Black	2.46 kgs ± 0.20 kgs	12 kN	EN 795: 2012 Type A
PGL-APSS-103	Alloy Steel	Powder Coated Black	1.46 kgs ± 0.10 kgs.	23 kN	ANSI Z359.18:2017 Type A
PGL-APSS-104	Alloy Steel	Powder Coated Black	2.53 kgs ± 0.10 kgs.	23 kN	ANSI Z359.18:2017 Type A

FIXED ANCHORAGES

For Extremity

- Compatible with Minimum Flange width: 150.0 mm
- Compatible with Maximum Flange width: 220.0 mm



Extremity Anchor Plate
Ref. PGL-APSF-101

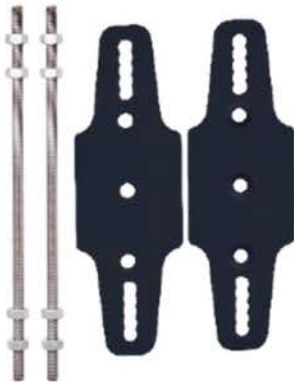


Stainless Steel Extremity Anchor Plate
Ref. PGL-APSF-102

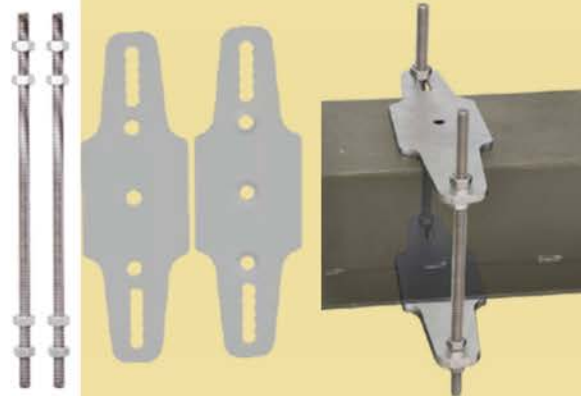
Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-APSF-101	Alloy Steel	Powder Coated Black	12.45kgs	15kN	EN795:2012 Type A, TS16415:2013 Type A
PGL-APSF-102	SS Grade 316	Electropolished / E Coated	10.18kgs		

For Intermediate

- Compatible with Minimum Flange width: 150.0 mm
- Compatible with Maximum Flange width: 220.0 mm



Intermediate Anchor Plate
Ref. PGL-APSF-201



Stainless Steel Intermediate Anchor Plate
Ref. PGL-APSF-301

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-APSF-201	Alloy Steel	Powder Coated Black	3.87kgs	NA	NA
PGL-APSF-301	SS Grade 316	Electropolished / E Coated	3.19kgs		

Anchor Load Indicator

Ref. PGL-APL-101

The anchor load indicator is designed to check on-site anchors and uniquely shows when a load of 15kN is achieved.



Ref. No	Material	Finish	Weight
PGL-APL-101	Stainless Steel	Electropolished / E Coated	74.0 gms ± 5.0 gms

FIXED ANCHORAGES

Fitted on the flange of an I-Beam

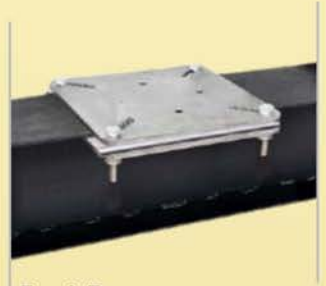
- Compatible with Minimum Flange width: 150.0 mm Compatible with Maximum Flange width: 220.0 mm



Anchor Plate For I-Beam
Ref. PGL-APIB-101



Stainless Steel Anchor Plate For I-Beam
Ref. PGL-APIB-102



Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-APIB-101	Alloy Steel	Powder Coated Black	10.52kgs	15kN	EN795:2012 Type A, TS16415:2013
PGL-APIB-102	SS Grade 316	Electropolished / E Coated	8.60kgs		

Anchor designed for fixing a Horizontal Lifeline, featuring slots for various structure sizes. Compatible with Universal Extremity Plate

Available Lengths: 300mm, 500mm and 750mm Compatible with minimum flange width: 150mm
Compatible with maximum flange width: 220mm



Extremity Anchor Post
Ref. PGL-APEX-101



Stainless Steel Extremity Anchor Post
Ref. PGL-APEX-201

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-APEX-101	Alloy Steel	Powder Coated Black	18.30kgs	15kN	EN795:2012 Type A, TS16415:2013
PGL-APEX-102			20.07kgs		
PGL-APEX-103			22.15kgs		
PGL-APEX-201	SS Grade 316	Electropolished / E Coated	17.80kgs		
PGL-APEX-202			19.20kgs		
PGL-APEX-203			21.03kgs		

FIXED ANCHORAGES



Steel Anchor
Ref. PGL-SA-101

- Anchor designed for fixing on metal I Beam for Horizontal Lifeline installation.
- Adjustable opening fits various I-Section flange sizes.
- Minimum flange width: 150.0mm; maximum flange width: 220.0mm.
- Available lengths: 300mm, 500mm, and 750mm.



Steel Anchor
Ref. PGL-SA-201

- Anchor for fixing on metal I Beam for Horizontal Lifeline installation.
- Features an adjustable opening for various sizes.
- Minimum flange width: 150.0mm; maximum flange width: 220.0mm.
- Available lengths: 300mm, 500mm, and 750mm.

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-SA-101	Alloy Steel	Powder Coated Black	12.15kgs	15kN	EN795:2012 Type A, TS16415:2013
PGL-SA-102			12.97kgs		
PGL-SA-103			14.15kgs		
PGL-SA-201	SS Grade 316	Electropolished / E Coated	12.15kgs		
PGL-SA-202			12.97kgs		
PGL-SA-203			15.15kgs		



Anchor
Ref. PGL-SA-301

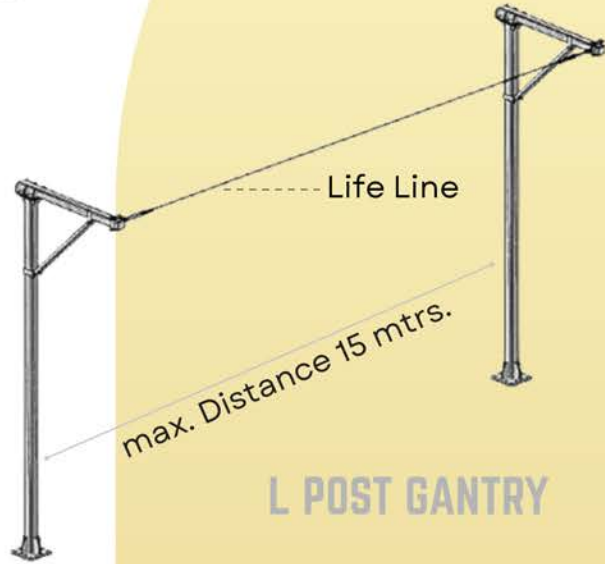
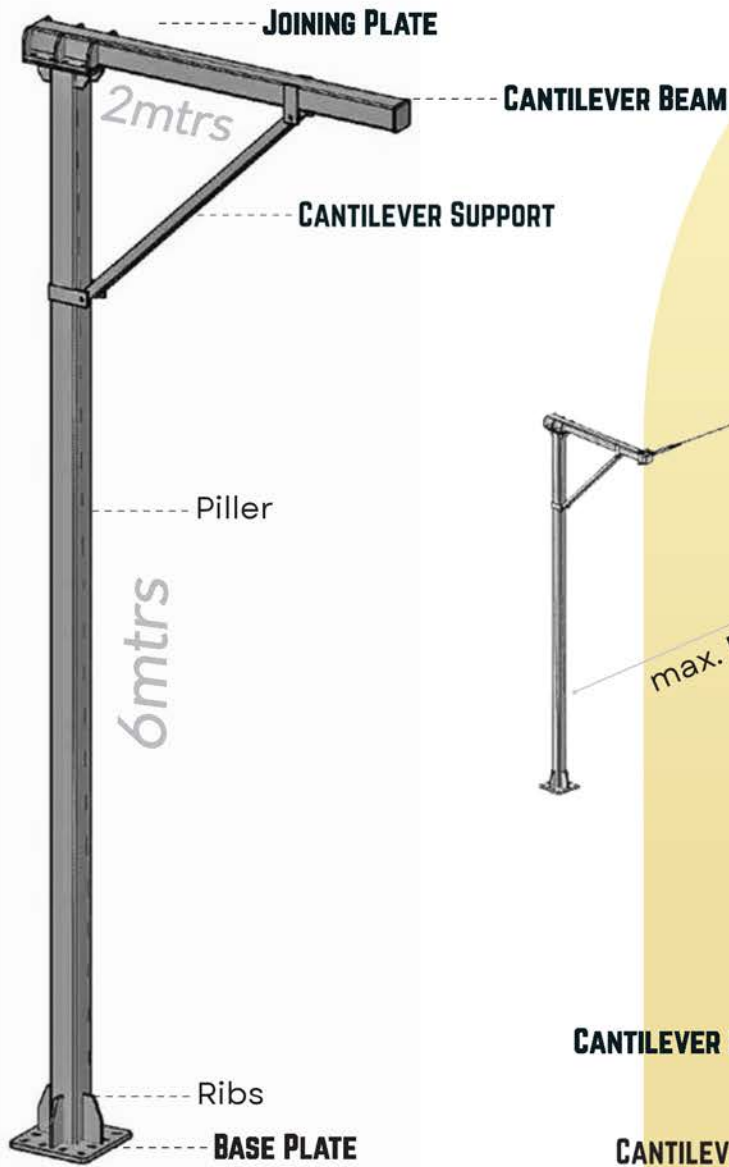
- Anchors for fixing on concrete structures using chemical fasteners for Horizontal Lifelines.
- Base features an adjustable opening for various I-section sizes.
- Available in lengths of 300mm and 500mm.

Ref. No	Material	Finish	Weight	Min. Breaking Strength	Conforms to
PGL-SA-301	Alloy Steel	Powder Coated Black	10.38kgs	15kN	EN795:2012 Type A, TS16415:2013
PGL-SA-302			12.80kgs		



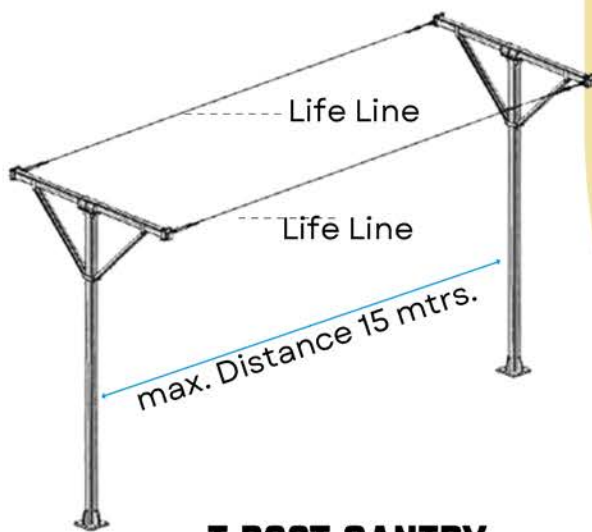
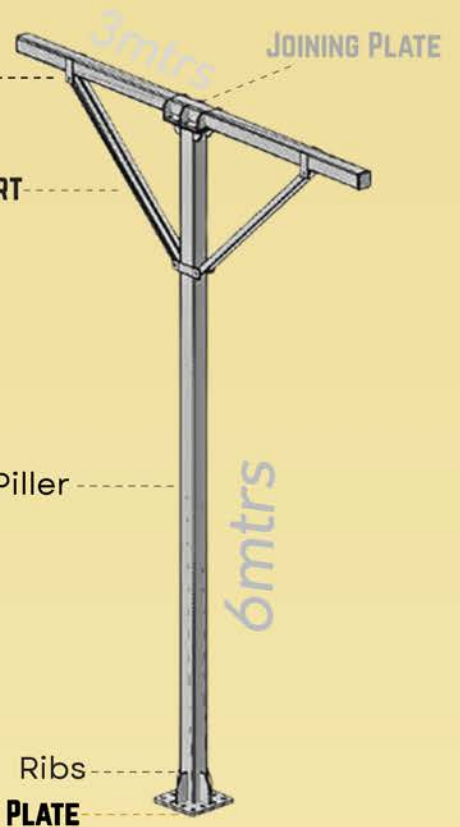
TYPES OF OVER HEAD LIFELINE SYTEM



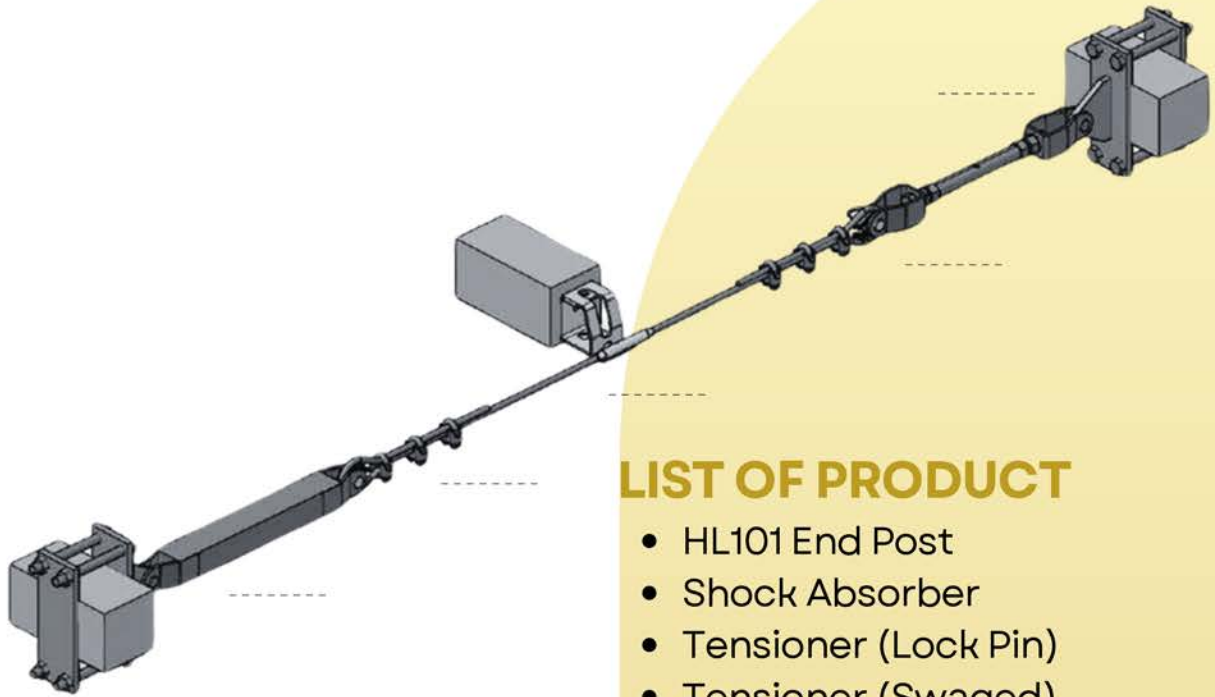


CANTILEVER BEAM

CANTILEVER SUPPORT



T POST GANTRY



Roller Runner LGR HL610



Tandem Runner LGR HL605

LIST OF PRODUCT

- HL101 End Post
- Shock Absorber
- Tensioner (Lock Pin)
- Tensioner (Swaged)
- Tensioner (Swageless)
- Wire Rope
- Wire Rope Cap
- Intermediate (Fixed)
- Intermediate (Swivel)
- Cable Extremity (U Bolt/Thimble)
- Cable Extremity (Swaged)
- Cable Extremity (Swageless)
- CORNER BRACKET
- INSPECTION TAG
- Roller RUNNER
- Tandem Pulley Runner
- KARABINER
- Retractable 6/20 mtrs
- L type Gantry
- T type gantry
- Bolts and Fasteners

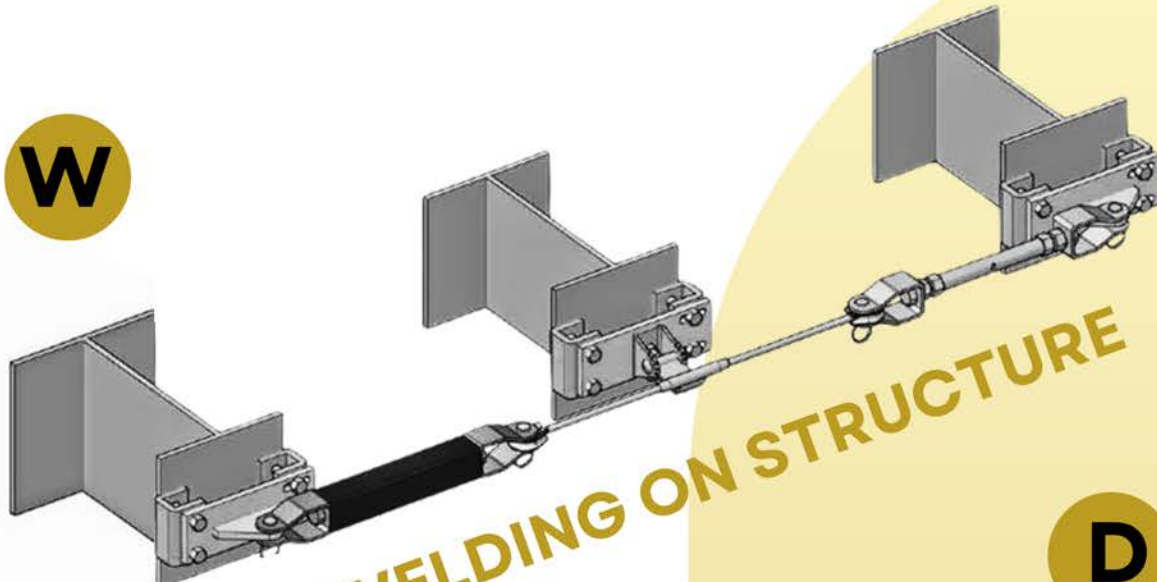


Types of Crane Bay Lifeline

- Industrial overhead cranes are a substantial investment that necessitates regular maintenance and inspections. If you've ever walked along a crane rail, you're likely aware of the significant fall hazards involved. Crane bay rails provide a narrow, dust-covered walking surface, increasing the risk of slips, trips, and falls from heights.
- A popular fall protection solution for crane rail applications is the horizontal lifeline system. This system enables safe access along the entire rail length while ensuring 100% tie-off. While crane lengths can vary, we can design and install lifelines that range from 20 meters to 300 meters in a continuous run.
- Lifegear provides lifelines specifically for overhead cranes and crane bays. Our crane bay lifelines are constructed from stainless steel and are permanently attached to the structures using one of three methods: welding, drilling, or clamping. They are certified to meet EN 795:2012 Type C and CEN/TS 16415:2013 standards.

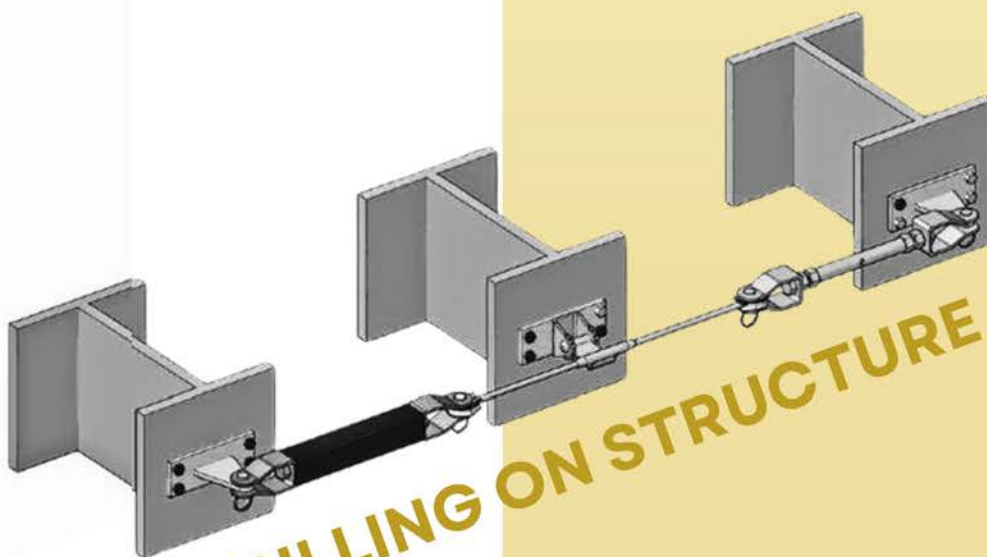


W



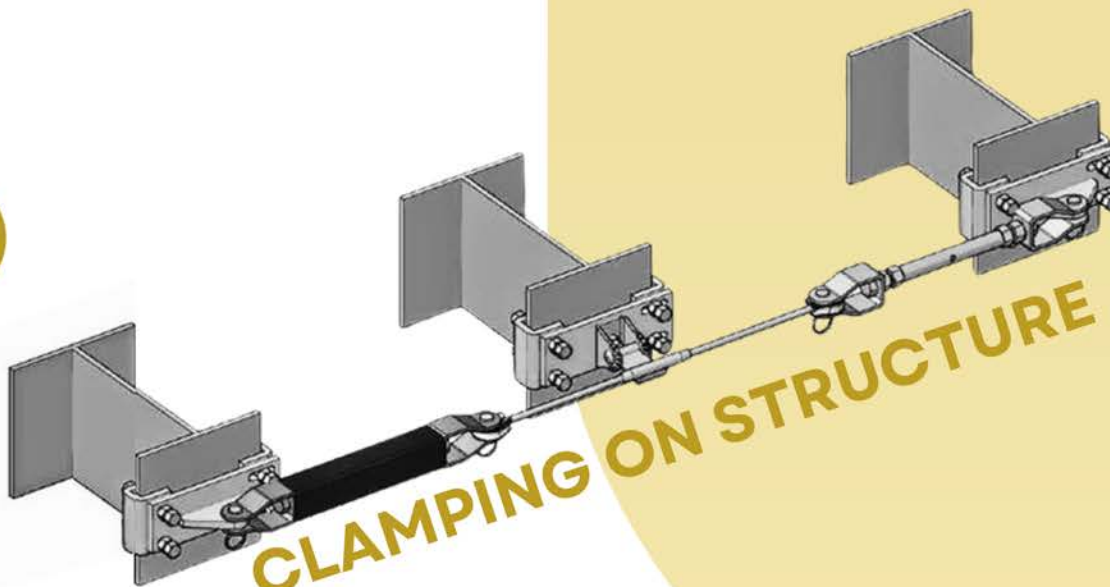
WELDING ON STRUCTURE

D

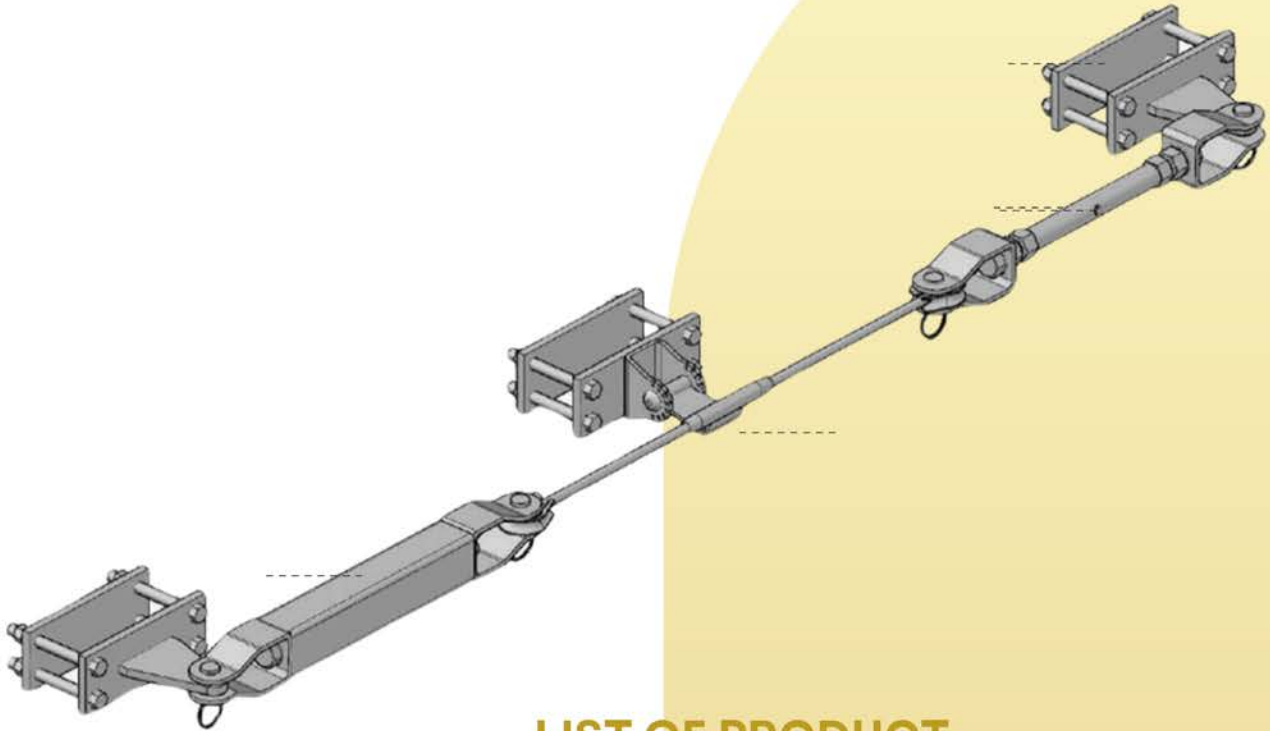


DRILLING ON STRUCTURE

C



CLAMPING ON STRUCTURE



Glider Runner LGR HL603

LIST OF PRODUCT

- HL101 End Post
- HL101(2) Clamping beam Post
- Shock Absorber
- Tensioner (Lock Pin)
- Tensioner (Swaged)
- Tensioner (Swageless)
- Wire Rope
- Wire Rope Cap
- Intermediate (Fixed)
- Intermediate (Swivel)
- Cable Extremity (U Bolt/Thimble)
- Cable Extremity (Swaged)
- Cable Extremity (Swageless)
- CORNER BRACKET
- INSPECTION TAG
- Roller RUNNER
- Glider Runner
- KARABINER
- Retractable 2.25 mtrs
- R21 rope Lanyard
- Bolts and Fasteners





CHANNEL CLAMPING SYSTEM

- Pipe rack systems feature kilometers of elevated, tiered, and uneven walking surfaces that are ideally safeguarded with horizontal lifeline systems. By securing to these lifeline systems, workers can safely navigate across various levels of an elevated pipe rack. We provide a variety of clamping fixtures designed to fit different industrial structures. The height of the anchor can be adjusted according to specific needs. Our systems are certified to EN 795:2012 Type C and CEN/TS standards.

TYPES OF CLAMPING

BEAM CLAMPING SYSTEM



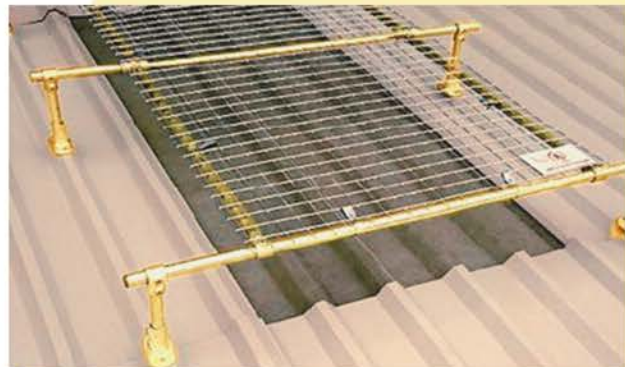
The PG Skylight Protector

is specifically engineered to prevent falls through rooflights.

This uniquely designed, innovative product offers protection for personnel who need to access fragile rooflights while performing maintenance or inspections on industrial roofs.

VERSATILE

- PG uses standard clamp fittings and standard lengths of tube to form a rigid frame.
- A mesh panel is mounted on the frame to prevent falls through the rooflight. Also available in different sizes, as per requirement.



PORTABILITY

PG uses range has been designed in component form to ensure that it can be easily transported both to site and up to roof level.



DURABILITY

The skylight protectors are supplied with a galvanised finish, Hot Dip Galvanised Coatings

OSHA Standard 29 CFR 1910 ACR (M) 001:2014



BENEFITS:

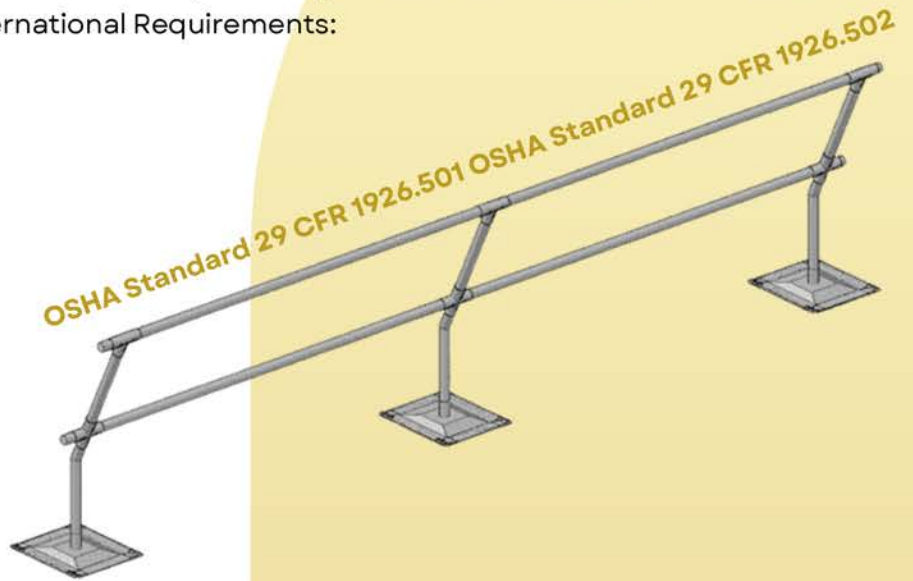
- A highly portable, component-based system that can be easily transported to the rooftop. All components and mesh panels are hot-dip galvanized for increased durability.
- The mesh panels allow light to pass through, ensuring the building remains well-lit.
- Extension panels provide the flexibility to cover wider and longer areas, guaranteeing the roof surface remains safe.
- Simple installation helps minimize costs. The metal frame and panels are designed to resist brittleness, ensuring a long-lasting setup.

Adjustable height features make it suitable for various shaped roof lights.



ROOF ACCESS LADDER

No annual inspections, maintenance, training, additional equipment is required our products has been independently tested and meets or exceeds the following International Requirements:





Fall Protection Experts
petrogold-eg.com

Contact us :

 info@petrogold-eg.com

 petrogold-eg.com

 +201283937278

 [petro.gold](https://www.linkedin.com/company/petro-gold)

 [PetroGold.EG](https://www.facebook.com/PetroGold.EG)

[@petrogold5](https://www.facebook.com/@petrogold5)

 [@petro_gold_for_training](https://www.instagram.com/@petro_gold_for_training)

