

**SDI**

fall-protection.com



Horizontal Anchorage Device

**Xenon**

Horizontal Lifeline System



# The Law requires protection against falling from height



Building owners and managers must provide safe systems of work!

## Why fall protection?

**Gravity kills!** Falls from height are one of the leading causes of serious injury and death at work. Analysis of all industrial accidents usually highlights inappropriate working conditions as a principal factor. In the case of work at height the consequences are immediate and serious, resulting in major disability or death. Approximately one in seven work place fatalities are due to a fall from height.

## What the Law says!

According to a European directive, the employer or company responsible must put fall protection measures in place for persons working at height. The employer should try to minimise the risk through design or engineering controls and provide measures to prevent falls. If this is not feasible then other protective measures should be considered, such as personal fall protection equipment and systems.

## Which system is the correct one?

Various systems are available in the market and they differ in their design and application significantly. Safety features, functions, handling and ease of use, should all be evaluated. Additionally; durability, maintenance costs and long-term value should be assessed in order to select the best system.

In all cases, fall protection systems should be designed for each specific application. This will minimise the risk of a fall from height and maximise the efficiency of the work being carried-out.





# Xenon - the highest quality and best value system

The versatility of Xenon ensures that it is always the correct choice

## Safe protection against falls

The Xenon Horizontal Lifeline is an anchorage device incorporating a flexible wire rope. The principal components of the system are; shuttles, shock absorbers, intermediate anchors and end anchors. The Xenon Horizontal Lifeline can provide the perfect safety solution for installation, maintenance and cleaning at height. It can be used; in industrial plants, on roofs, on cranes and over vehicles.

## Tested and certified

The Xenon anchorage device from Söll® has been tested by an independent EU Notified Body, it is CE-certified and complies with the requirements of EN795.

Once the Xenon system has been installed and commissioned, trained users can make immediate use of it on a permanent basis.

## Overview of all advantages:

- Suitable for use on all types of buildings and structures
- Can be fixed on the platform floor, to the wall or overhead
- Quick and cost-effective installation
- No user maintenance is required
- Long fixing spans can be used, (up to 20 m between brackets)
- Free movement through brackets from both sides
- Direct fixing to lightweight roof systems



# Simple and quick to install

A small range of versatile and high-quality stainless steel components makes installation and inspection of systems easy and efficient

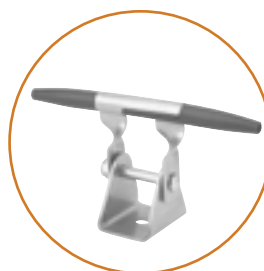


## Shock absorber

The new shock absorber has 4 essential functions in one unit, these are; a shock absorber, a line tensioner, a tension indicator and a fall indicator. Thanks to the new **Structure Guard** technology loads applied to system anchor points can be reduced to 6.5 kN\*.

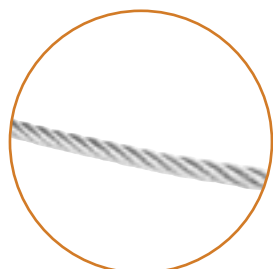
Hence, Xenon systems can be fixed to lower-strength structures such as lightweight roofs or masonry.

\*depending on system configuration



## Intermediate Brackets

Versatile design, each bracket can be configured as free-floating, spring-loaded or locked. Brackets can be assembled on a fitted cable allowing easy replacement.



## Stainless steel wire rope

The stainless steel wire has a diameter of 8 mm.

It is certified for use by up to 4 persons and for spans up to 15 m. Other cable types can allow use by up to 7 persons and spans up to 20 m.



## Corner Kits

Exceptional adaptability and easy cable installation. Can be fixed to internal and external corners, and to double-point or single-point posts. Pre-formed and site adjustable units are available.



## Shuttles

High-strength, robust and ergonomically designed, with a dual locking mechanism. Smooth passage through brackets without the need for alignment or adjustment by the user. Extra-wide eye for safe attachment of all types of connectors which comply with EN 355 & EN 360.



## Cable End Parts

Swaged and swageless options are available for all end parts. Allows choice of lower cost components using swaging press, or quicker installation with standard hand tools.





# Overhead applications

Robust and smooth anchorage system above the User



## Xenon



### Horizontal Lifeline System

Common areas of application include; vehicle bays, crane tracks, warehouses and aircraft hangars.

#### How can you provide protection against falls with maximum freedom of movement?

The Xenon Horizontal Lifeline can be fixed above the user's position. The shuttle will move along the cable above the worker, minimising any pendulum swing during a fall.

A rope and grab system or automatic retractable fall arrester can be attached to the shuttle to provide a safe range of both vertical and horizontal movement.

#### Combine horizontal and vertical systems!

Where the system has large spans or a heavy retractable fall arrester is used for very high systems, then the over-head shuttle can be used. The overhead shuttle has wheels that run on the cable and (when combined with the overhead intermediate bracket) allows smooth continuous passage along the full length of the cable.

The Xenon overhead shuttle is one of the smoothest running available and it glides through the intermediate brackets. It is made of stainless steel, it is extremely durable and it is suitable for use in very harsh and demanding environments.



# Installation for walls and masonry

Discreet and effective anchorage system close to the User



The Xenon fall protection system can be installed on most walls or facades using appropriate structural fixings. The versatile range of end anchors, corners and intermediate brackets always allow for an appropriate bespoke system layout.

The system, which is also ideal for use on building facades, can be used with a lanyard compliant with EN 355 & EN 354, or a retractable fall arrester compliant with EN 360.

## Ideal for weak substrates

Using shock absorbers with **Structure Guard** technology, loads are reduced and the Xenon system can be installed in severe environments and on to weak substrates, such as aluminium profiles or masonry.

## Xenon

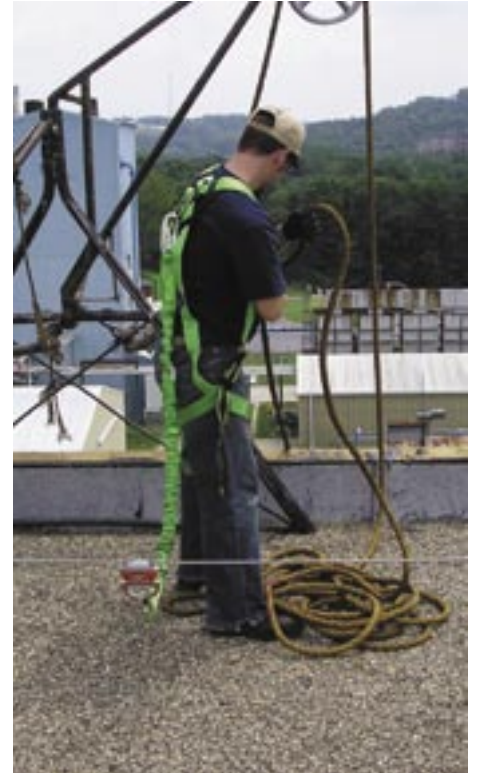
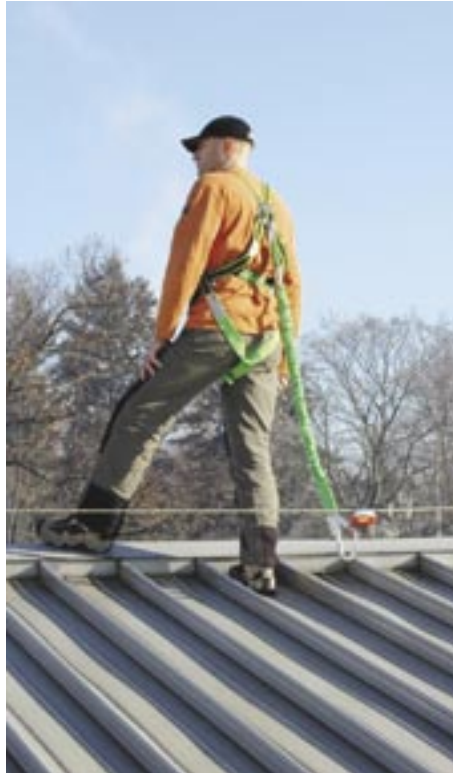
Horizontal Lifeline System





# Installation on roofs

Comprehensive safety on commercial, residential, industrial & recreational roofs

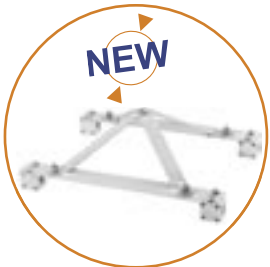


Söll offers an extensive range of fixing posts for simple, quick and cost-effective installation of the Xenon system.



## Structural Posts

A range of rigid stainless steel posts for fixing to concrete roof slabs or to the structural frame of the building.



## Interfix-Posts

The highly efficient **Structure-Guard-Technology**, within Xenon Shock Absorbers allow the system to be fixed directly to light-weight roof systems. Solutions are available for; profiled metal decks, standing seam and membrane covered roofs.

**Interfix-posts** can be installed without access to the underside of the roof and without additional weather-proofing work.



## MultiPost

A range of rigid, corrosion-resistant, galvanised steel posts. Including standard fixing solutions for concrete slabs, steel beams and timber structures.



## The perfect solution for every roof

Access on to roofs is very common for regular maintenance and cleaning of mechanical plant, roof lights and gutters. There is a high risk of falling from height and workers must be protected. Xenon horizontal lifeline can be used to provide protection as either fall restraint or fall arrest: When using a fall restraint system, the worker is restrained and can only work in zones where there is no risk of a fall from height. This is the preferred type of solution. A fall arrest system, does not prevent the worker from falling, but does minimise the effects and consequences of a fall, by arresting the fall in a controlled manner. The provision of fall restraint or arrest solutions is dependent on the position and layout of the Xenon system and also on the type of connecting PPE which is used.



## Proven system with the best references

The advantages of the Xenon anchorage have convinced many international organizations, to protect their employees working at heights with Söll systems. Xenon systems have been successfully installed and used at renowned companies and famous buildings such as:

New York Metropolitan Museum of Art, USA  
 Daimler Chrysler, Germany  
 Volkswagen, Germany  
 Disneyland, Hong Kong  
 Olympic Stadium, Greece  
 Intel, Ireland  
 Coca-Cola, United Kingdom  
 Bertone, Italy  
 Dow Chemical, USA  
 Orange, Sweden  
 O2, Germany  
 T-Mobile, Germany  
 Völkerschlachtdenkmal, Germany  
 Quantas, Australia



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