

# Fall arrest systems

Anchor points, horizontal lifelines and guardrails

# XSPHILOSOPHY: DRIVEN BY INNOVATION

## WE ARE GUIDED BY FIVE CORE VALUES:

SAFETY ABOVE ALL

FOCUS ON THE CUSTOMER

SIMPLICITY DEFINES QUALITY

THE BEST ISN'T GOOD ENOUGH

THERE IS NO SUCH THING AS A PROBLEM

At XSPlatforms, we believe that anyone who works at height should be able to do their job easily and safely. Whether maintaining or inspecting the roof or washing the windows of the highest skyscraper in the world - anyone, anywhere in the world, must be able to work at height safely.

Every day we are working hard to achieve this goal. With every new solution, we come one step closer. And the closer we get to our goal, the more driven we are to take the next step. More driven to discover the following solution and to surprise the world with innovations that nobody thought possible.

# WORKING SAFELY AT HEIGHT ACCORDING TO XSPLATFORMS



Working at height is risky, but you get used to it. At relatively modest heights, people feel quite comfortable and often underestimate the risks. This results in hundreds of preventable accidents every year: often with injuries, sometimes fatal. Adequate fall protection is therefore a must.

Fall protection is available in various forms. XSPlatforms offers a complete range of innovative products. A custom solution combining an optimal balance between price and user-friendliness can be created for any building. Always with absolute certainty that the fall protection will operate correctly, safely and reliably.

No matter which type of fall protection you choose, every XSPlatforms solution rests on a number of crucial requirements:

- Reliable
- Practical
- Universal
- Durable
- Attractive design
- Efficient

## RELIABLE

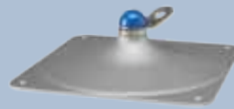
The Engineering department at XSPlatforms is the first in the industry to be certified by the TÜV quality institute and authorized to perform CE-testing. Every step of the product life cycle, from design through maintenance, is performed according to certified procedures. Each product receives a unique serial number for quality assurance as well as traceability.

## DURABLE

A good fall protection system is durable. In every way. That means: low-maintenance and produced using durable materials. XSPlatforms uses aluminum and stainless steel in all its products. Its systems are designed to ensure rooftops and roofing materials sustain little or no damage during installation and inspection, or even in the event of a fall.

# ANCHOR POINTS AND LIFELINES

Fall arrest systems by XSPlatforms that qualify for one to four stars use various combinations of anchor points and horizontal lifelines. The product line includes multiple types of anchor points and lifeline systems to achieve custom solutions.



#### **XS Globe & RAP Globe**

Suitable as a stand-alone anchor point equipped with a 360° swiveling safety eye.



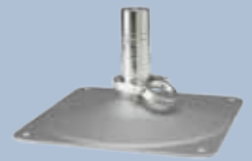
#### **XS Globe & RAP Globe**

Suitable as a stand-alone anchor point equipped with a 360° swiveling safety eye and also suitable for Rope Access duties.



#### **XSImpact 360° Pro**

Suitable as stand-alone anchor point, equipped with an integrated energy absorber.



#### **XSImpact RAP**

Suitable as an anchor point in combination with an XSLinked or LinkedPro horizontal lifeline. The RAP is also suitable for Rope Access duties.

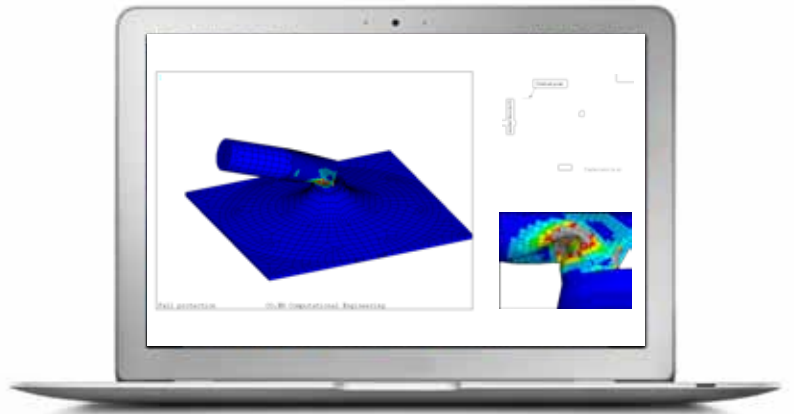


#### **XSLinked & LinkedPro**

Horizontal lifeline system, to be used in combination with XSImpact Pro. LinkedPro makes it possible for users to pass each other without disconnecting from the system.



Computer animation shows how the intelligent reaction mechanism bends in the direction of the fall to absorb the shock. The picture below shows this effect in practice.



### INTEGRATED ENERGY ABSORBER

The XSImpact Pro and XSImpact 360° Pro anchor points contain an intelligent reaction mechanism that bends in the direction of the fall to absorb the shock. This energy absorber allows the XSLinked or LinkedPro cable path to bridge greater distances between two anchor points and requires fewer anchor points over the entire path.

### QUICK INSTALLATION

All XSPlatforms anchor points utilize a separate base plate that is mounted directly on top of the roofing material with just one anchor through the roof structure. This results in installations times that are four to five times faster than standard systems. The system is also perfect for activities which are completed quickly such as inspections, cleaning or small-scale repairs.

### MAXIMUM PROTECTION OF THE ROOF CONSTRUCTION

The integrated energy absorber in the XSImpact Pro and XSImpact 360° Pro ensures that even extremely light and fragile roof constructions sustain no damage in the event of a fall.

### UNIVERSAL APPLICATION

Anchor points can be used on many roof types thanks to the high absorption properties of the integrated energy absorber. Installation kits are available for a wide range of roofing materials. The profiles used in the kits are cut to size by our partners and therefore always available for quick delivery.

### EASY TO INSPECT

All anchor points can be inspected at any time, both visually as well as through a tensile test (without activating the anchor). The strength of the attachment in a concrete roof can be easily verified without disassembling the anchor point.

### EASY TO REPAIR

After a fall, the anchor point must be replaced. Thanks to the separate base plates (which are usually not damaged by a fall and therefore do not need to be replaced) this is simple, relatively inexpensive and does not cause damage the roof.

### OPTIMAL FREEDOM OF MOVEMENT

The various XSSliders are functioning as a 'traveler' or glider that moves smoothly along the cable. Passing cable holders and sliding through curves on both sides of the horizontal lifeline is just as easy. All while the user remains securely attached to the cable. Result: the ability to work safely without restrictions.

### REVOLUTIONARY PROTECTION

Anchoring systems by XSPlatforms not only satisfy all necessary safety standards and regulations, thanks to apparently small but significant innovations, XSPlatforms continues to raise the bar. An example: steel cables must be regularly examined to determine if the cable is still connected over the entire length of the 'terminal' and has not gradually shifted.

### PATENTED

All XSPlatforms anchor points, systems and corresponding products are worldwide patented products.

# LINKEDPRO BY XSPLATFORMS

Developed from the idea that in those places where you install fall protection, you really don't want to disconnect yourself to pass another user. Fall protection has to be practical, safe and easy to use. LinkedPro combines all these qualities into one system.



## SAFETY WITH A STAR

Fall arrest systems of XSPlatforms are tested and certified according to the latest EN, OSHA, ANSI and CSA standards.



### MAXIMUM, PERMANENT PROTECTION

The XSGuardrail system of roof edge railings, with optional toe boards, turns the entire roof into a safe access area without the need for special precautions or personal protection gear. Requires no specific user knowledge of fall protection systems.

Number of users: unlimited.  
Suitable for most rooftops with a max. slope of 10°.



### PRACTICAL PROTECTION

Permanent XSImpact anchor points used with a LinkedPro or XSLinked horizontal lifeline system and placed from max. 8 to 12 meters (26.2 to 39.4 ft) apart, depending on the type of system. Users are attached by a XSSlider, but retain complete freedom of movement.

Number of users: 2 to 6 users per lifeline, depending on type of system and type of roof structure.  
Suitable for most rooftops.



### PRACTICAL AND ECONOMICAL PROTECTION

Two or more permanently attached XSImpact anchor points included in a LinkedPro or XSLinked steel cable system and placed from max. 8 to 12 meters (26.2 to 39.4 ft) apart. This system is complemented with additional anchoring points at the corners of the roof to prevent the pendulum effect in the event of a fall.

Number of users: 2 to 6 users per lifeline, depending on type of system and type of roof structure.  
Suitable for rooftops with a maximum width of 16 meters (52.5 ft).



### ECONOMICAL PROTECTION

Permanently fitted type XSGlobe, RAP Globe or XSImpact 360° anchor points at intervals of up to 6 metres (19.7 ft) and at approximately 4 metres (13.1 ft) from the roof edge, with optional additional anchor points at the roof corners to prevent swinging in the event of a fall. If equipped with RAP Globe anchor points, the system can also be used for Rope Access duties (depending on the type of roof structure).

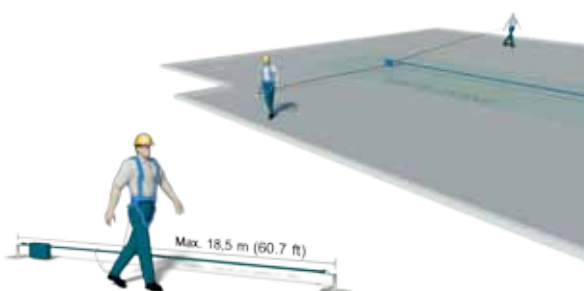
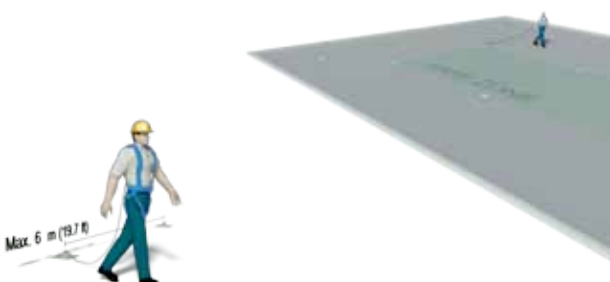
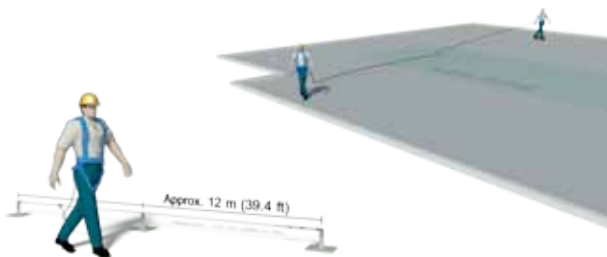
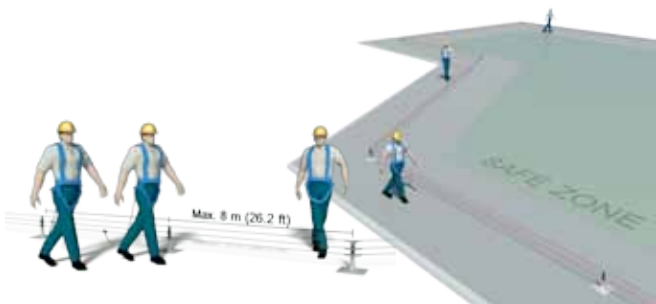
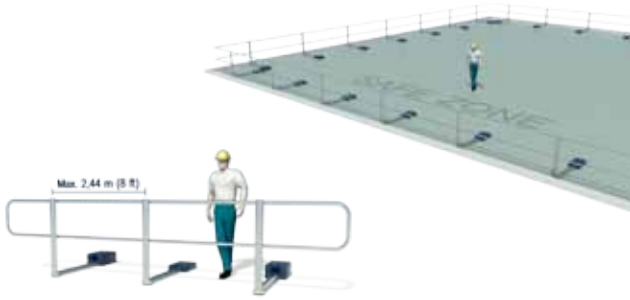
Number of users: 1 user per anchor point.  
Suitable for rooftops with a width of 8 meters (26.2 ft) or more.



### MINIMUM REQUIRED PROTECTION

Permanently fitted type XSGlobe, RAP Globe or XSImpact 360° anchor points at intervals of up to 18,5 metres (60.7 ft). The anchor points are located along the roof centreline as much as possible and are connected by a temporary mobile lifeline.

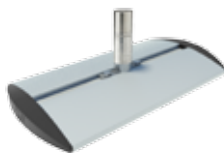
Number of users: 2 persons per portable lifeline.  
Suitable for rooftops with a width of 8 meters (26.2 ft) or more.



# SOLUTIONS FOR EVERY SITUATION

From the highest possible level of protection with maximum freedom of movement to a simple system that meets all requirements. Whatever your need, XSPlatforms extensive range of products makes it possible to create a custom solution for every situation.

## METAL DECK ROOFS



Fall arrest systems of XSPlatforms are not only available for standard roof types, such as concrete or plywood roofs, but also for a variety of metal deck roofs. The Xtrusion is a special type of base plate which is fixed to the profile using four clamps. This base plate can be used as a stand-alone anchor point or as part of an XSLinked system. For certain types of profile roofs XSPlatforms has developed the XSMD, variable in widths of 400 and 500 mm (15.7 and 19.6 in). This type of base plate is mounted directly to the roof using stainless steel rivets.

## SYSTEM ELEVATION



Developed to increase the height in a XSLinked (or LinkedPro) system, the Extensions and Spacers are accessories for the XSBending kit Pro. Extensions and Spacers can be used with (existing) horizontal lifelines and stand-alone anchor points on many types of roofs. The Extensions and Spacers are available in black, red and green.

These colors can serve as route signs (LinkedPro) or as a warning sign to minimize tripping hazards.

## DEADWEIGHT ANCHOR POINT



The RockSolid is a deadweight anchor point that is easily placed on top of the roof surface without penetrating (or opening) the roofing and roof structure. The RockSolid, combined with the XSGlobe or XSImpact 360° Pro, is used as a stand-alone anchor. The RockSolid can be assembled on the ground level and lifted onto the roof (for example with a crane) or it can be easily assembled on the roof.

## SYSTEM ACCESSORIES



XSPlatforms also has an extensive range of accessories for its fall arrest systems. For example the Tensioning tool, which helps you determine the preload of the cable. Or the special roof markers which can serve as fall hazard markers or signal tripping hazard.

# XSGUARDRAILS

The highest degree of fall protection (five stars) is achieved by the use of guardrails. A permanent, simple solution that ensures the safety of an unlimited number of people. In short: optimal protection for minimal effort.



## STRAIGHT AND CURVED

XSGuardrail is available as a 'straight' guardrail and in a curved version. The curved designs provide extra safety (by keeping people further from the roof edge) and, thanks to their attractive design, can accentuate the architectural design of the building.

## COLLAPSIBLE

Maximum protection with minimal impact on the architectural design: the straight guardrails in the XSGuardrail series are also available in a collapsible version, making them only visible when the work is actually being completed.

## FREE STANDING

XSGuardrails stand freely and therefore do not need to be attached to the roof structure. The long stand bases and concrete counterweights keep the system securely in place. This minimizes the risk of leaks and moisture penetration.

## INTEGRATED TOE PLATE

For roofs without a parapet, the XSGuardrail can be easily equipped with an integrated toe plate to, for example, prevent materials from rolling or sliding off the roof.

## EASY TO INSTALL

Two people can install 250 to 300 meters (820 to 984 ft) per day. Because the components 'click' into place, practically no tools are required - just one special wrench is all that is necessary. The same is true for the horizontal elements which are clicked into place from above instead of passed through the stands from the side. This increases the safety for the workers installing the system.

## ALSO SUITABLE FOR UPRIGHT AND FLAT ROOF EDGES

The XSGuardrail is available with stands for mounting to the facade or on the parapet of roofs with upright eaves such as flat roofs.



# HORIZONTAL LIFELINES FOR WALL AND CEILING

Fall protection is not only required when working on rooftops. Often there is work to be done at height on the inside or against the facade of a building. The XSPlatforms wall and ceiling systems offer users optimal safety and freedom of movement.

## XSLINKED

The XSLinked Wall and Ceiling systems allow a steel cable path to be installed along a wall or ceiling. The system includes a beginning and an end plate, intermediates, corner brackets and a XSDynamic energy absorber.

## LINKEDPRO

The LinkedPro system makes it possible to attach more than one line to a single anchor point. This unique system makes it possible for several workers to safely pass each other on the same system. The LinkedPro horizontal lifeline system is also available for wall and ceiling. A major advantage of this system is that users on the same system each have their own lifeline and can therefore move freely without interfering with one another.

## XSDYNAMIC

The XSDynamic energy absorber is attached between the steel cable and the anchor point to reduce the force that occurs during a fall by approximately 60%.



## About XSPlatforms

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XSPlatforms develops revolutionary solutions for working at height safely and efficiently. From design and production, to installation, inspection and maintenance of systems for facade access. From its branches in Western Europe, Asia, the Middle East and North America, XSPlatforms also provides training for users, risk inventories and worldwide consultancy services.



What sets XSPlatforms' solutions apart is their attractive, durable design, their high level of reliability, their unprecedented ease of use and their practical innovations. Our portfolio includes:

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### FALL PROTECTION

Maximum permanent protection is offered by our guardrails and lifeline systems. With minimum damage to roofs and rapid assembly our products for portable fall protection are amongst the finest systems in the world. All fall protection solutions are designed with the user in mind: practical, safe and intuitive.

### FACADE ACCESS EQUIPMENT

Safety regulations get more strict everywhere. To ensure a minimum impact on the architectural value of a building, our durable building maintenance units are tailor made, adapted to a building's specific characteristics. With state-of-the-art technologic features, our gondolas and roofcars offer optimum protection to the user.

### SUSPENDED PLATFORM SYSTEMS

The best yesterday, isn't good enough today. With that in mind our team of designers has come up with a new, patented design for scaffolding systems. Safer upon erection, during use and when dismantling. This revolutionary system offers users more freedom of movement, safer use and easier transport.

### SCAFFOLDING SYSTEMS

Scaffolding systems that are easier and safer to erect than anyone thought possible. Systems that combine the advantages of scaffold towers and walk-through scaffolding, while providing users with optimum flexibility and safety.



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*The Netherlands (HQ) - Europe, Asia, Middle-East and North-America*

***info@xsplatforms.com*** | **2.3**

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