

# Safety at the highest level

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**We protect your life**

The ABS Safety GmbH company specializes in the field of fall arrest systems for individuals.

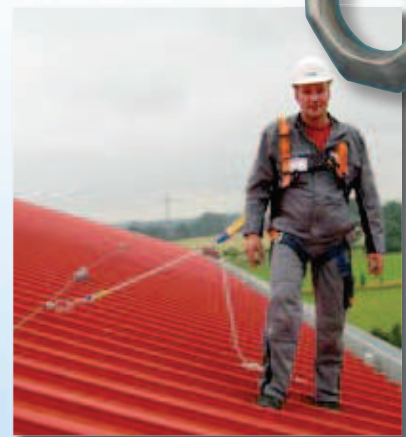
We are your competent partner for planning, sales and installation, as well as customer service. Our products are innovative developments that are manufactured in accordance with the latest production methods and standards - most of which are patented or protected designs. These developments can be implemented in



almost all areas where fall arrest is required, e.g. roofs, windows, building frontages, machines, crane ways, maintenance halls for trains, buses, planes and many more.

As a result of our membership in the standards committee and the opportunities we have for performing professional analyses, our company is a trend-setter in the field of fall arrest.

We are able to offer our customers special and complex solutions even on difficult surfaces, such as trapezoidal sheeting, wood and pumice. As a result of our own continuous controls and monitoring by the Exam test institute of the BBG we are able to offer top quality and safety at a fair price. **Why not test us!**



# Laying Down Basic Planning Rules

## Specifying the Free Fall Distance/ Maximum 2.0 to 2.5 m

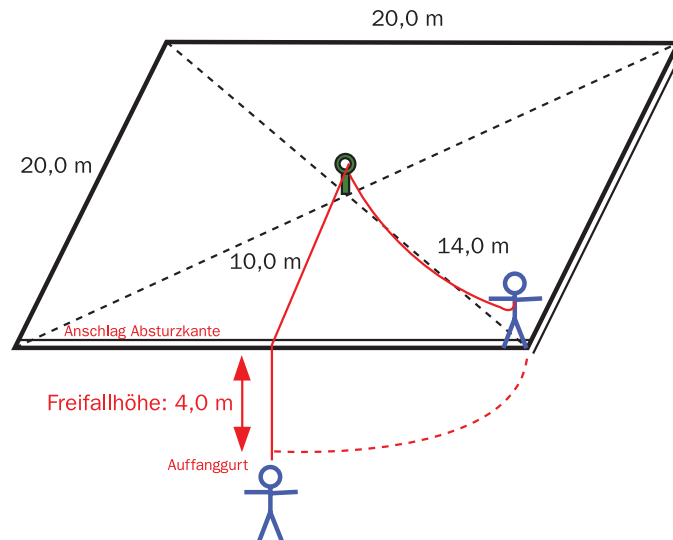
Individuals who fall when hooked up to a safety system often suffer serious injuries. Blood circulation dysfunctions can put one's life at risk. Rescuing and releasing the individual should not take more than 10 to 20 minutes. Keeping the fall distance short greatly reduces the risk of injury.

**The maximum “free fall” distance should, therefore, not exceed 2.0 – 2.5 m. These figures are used as a basis for planning a safety system.**

### Defining the free fall height:

The free fall distance is defined as being the length of the lanyard from the point where it touches the edge to the safety harness.

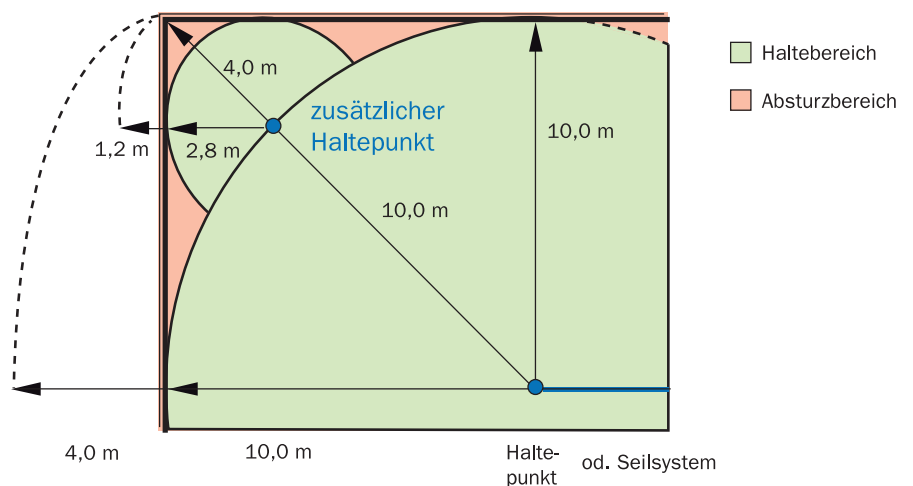
## Example 1



The distance of the anchorage point to the edge is 10.0 m which means that the length of rope to the corner is roughly 14.0 m.

**The free fall distance in the above example is more than 4.0 m so this configuration may not be used in the plans.**

## Example 2

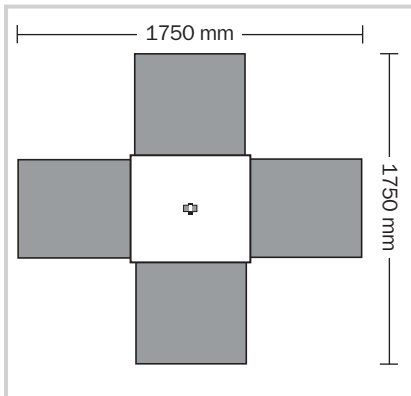


If the distance from the anchorage point to the edge is 10.0 m, the rope length to the corner is approximately 14.0 m, resulting in a free fall distance of around 4.0 m.

By installing an additional anchor at the point where the curve intersects the diagonal the free fall distance is reduced to 1.2 m.

**This example complies with the basic planning rules (free fall distance max. 2.0 m – 2.5 m).**

## Stainless Steel Weighted Roof Anchor without Roof Penetration



The ABS-Lock® Vario system was developed to provide a secure single anchorage point for individuals on flat rooves without roof penetration.

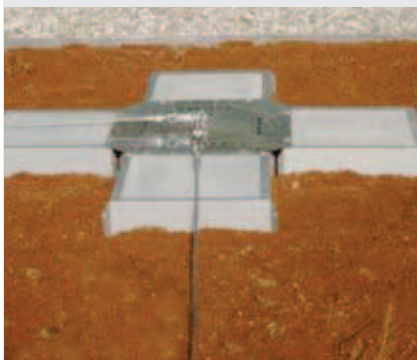
The system is licensed and tested as a class E weighted roof anchor in accordance with DIN EN 795. Being manufactured completely from stainless steel protects it from corrosion. Concrete slabs, which can be purchased in any DIY store, provide the Vario with the required stability.



### Implementation

The Lock Vario system is licensed for use on smooth rooves with a maximum 3° slope. It can also be implemented on wet or icy surfaces as long as the Lock Vario is surrounded by a layer of gravel or earth at least 5 cm thick.

system can either be used as a single anchorage point, a corner or end support or as an intermediate support integrated into a cabling system. For use as an intermediate support ABS supplies a model with 2 x 3 concrete slabs.



ABS-Lock® Vario in usage as a cabling system element

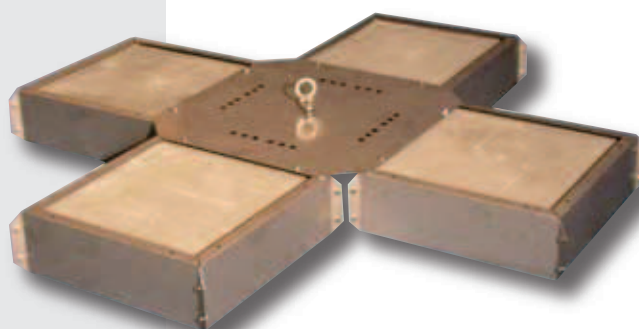
As it is held in place by the weight of 12 concrete slabs, each weighing 25 kg, it is not necessary to penetrate the roof surface or risk damaging the waterproofing. In order to protect the roof surface the Vario is setup on a drainage mat. The

### Vario:

Weight: 330 kg (with concrete slabs)  
Dimensions (LxB): 1.75 m x 1.75 m

### Vario Intermediate Support:

Weight: 170 kg (with concrete slabs)  
Dimensions (LxB): 1.75 m x 0.55 m

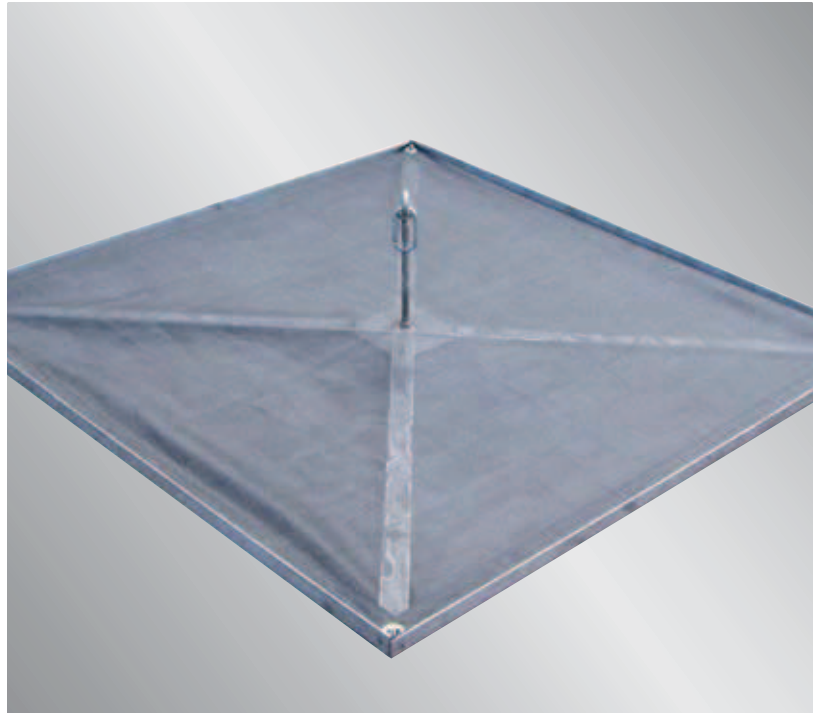






**The ABS-Lock® EG250 system was developed to provide a secure single anchorage point for individuals on flat rooves without having to penetrate the roof surface.**

The system is licensed and CE-tested as a Class E anchorage point to take up one person and his/her personal protective equipment including fall arrester in accordance with DIN EN 795. Being completely manufactured from stainless steel protects the Lock EG250 from corrosion.



### Implementation

Easy to use. The weighting materials (250 kg concrete slabs, roof plants, substrate, earth, gravel etc.) are simply distributed over the net.



The Lock EG250 for use on flat rooves was designed for implementation with a wide variety of different materials to ensure safety is maintained. It does not matter whether you use concrete slabs, gravel or loose chippings. All you need is 250 kg of whichever material you have to hand spread out over the EG250 netting.

Also ideal for use on rooves with roof plants as the EG250 can be integrated into the greenery. The plant substrate is placed on the net and acts as the base weight, whereby the load must not exceed 110 kg/m<sup>2</sup> (corresponds to approx. 6 cm gravel)!

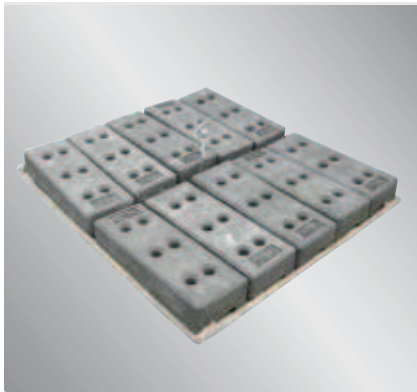
As it is totally integrated the EG250 does not spoil the general picture.

Dimensions (LxB): 1.55 m x 1.55 m

The EG250 is easy and quick to install which keeps the costs down.



## Mobile Anchorage Point Secured by its Own Weight



The ABS-Lock® EG260 system was developed to provide a secure single anchorage point for one individual on flat rooves without penetrating the roof surface or restricting movement.

The system is licensed and CE-tested as a class E weighted anchorage point in accordance with DIN EN 795. Being manufactured from stainless steel protects the Lock EG260 from corrosion. The weighted anchorage point was designed as a mobile anchor system for use on the whole roof surface.



### Implementation

The Lock EG260 is licensed for use on nearly all roof surfaces with a maximum tilt of up to 30°.

The weight of the 10 recyclable plastic weights, each weighing 25 kg, means that it is not necessary to penetrate the roof surface or risk damaging the waterproofing.

The plastic weights are equipped with carrying recesses for easy transport. That makes it possible

to relocate the anchorage point in 5-10 minutes. The mobile anchorage point is placed on weather-proof fleecing which protects the roof membrane and ensures that the Lock EG260 does not slip.

Weight: A total of 260 kg incl. 10 weights, each weighing 25 kg  
Anchor measurements (LxB):

1.4 m x 1.3 m

Fleece measurements (LxB):

2.0 m x 2.0 m



## Fixed Stainless Steel Anchorage Point



**The ABS-Lock® III system was developed to provide a secure single anchorage point for up to three individuals simultaneously.**

The system has been licensed and CE-tested as an anchorage point in accordance with DIN EN 795, classes A, B and C. Being manufactured completely from stainless steel it is protected from corrosion. The Lock III can be mounted in a variety of ways on a variety of surfaces.



### Implementation

The Lock III system is licensed for steel mounting (e.g. steel girders), concrete (also cracked) and in or on wooden surfaces (through a lateral mounting bracket) as well as reinforced concrete suspended ceilings.

The system is available in lengths up to 1.0 m.

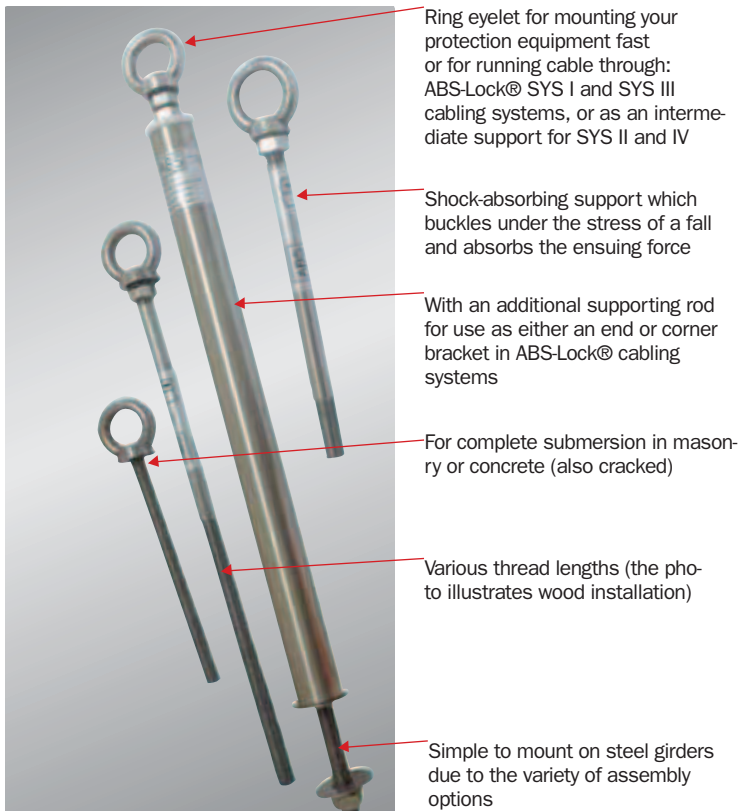
An additional supporting rod is used if the Lock III is mounted as either an end or corner support for a cabling system. Mounting in concrete

can either be done using a two-component adhesive or, in the case of the Lock III-BE model, using the integrated special nail plug.

The system can easily be implemented with a protruding end varying up to 0.85 m. It comes fitted with either a threaded or welded ring eyelet. If used as an intermediate support for the ABS-Lock SYS II or IV cabling systems it is supplied with a glide-over intermediate cable bracket.

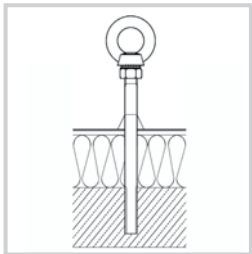




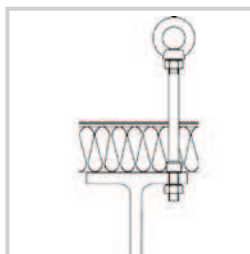


**NEW: ABS-Lock® III BE, installed by hammering it in Installation, incl. drilling, in less than 2 minutes!**

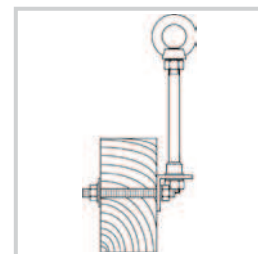
## Implementation



In concrete  
cemented or  
hammered in

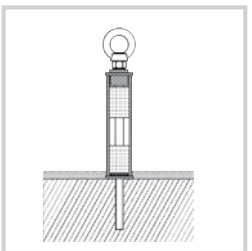


Bolted  
onto steel

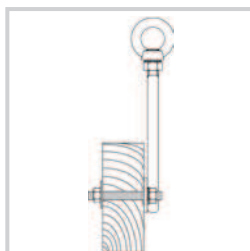


Laterally mounted on

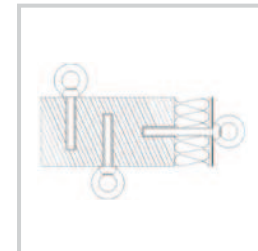
- concrete
- a building frontage
- a wooden rafter



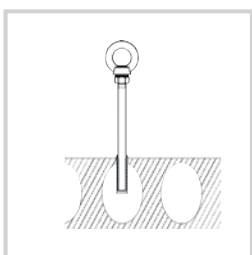
With a support-  
ing rod (shown  
here installed  
in concrete)



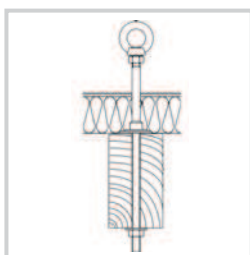
Laterally  
mounted on a  
wooden beam



Overhead or in  
a wall with no  
protrusion



Doweled into a  
reinforced con-  
crete suspen-  
ded ceiling



Screwed through a  
wooden beam

## Permanent Stainless Steel Anchorage Point with Base Plate & Stainless Steel Anchorage Point for Trapezoidal Sheeting



**The ABS-Lock® X system was developed to provide a secure single anchorage point for individuals.**

The system is licensed and CE-tested as an anchorage point in accordance with DIN EN 795, classes A, B and C as an end post for cabling systems.

Being manufactured completely from stainless steel protects it from corrosion.



### Implementation

The Lock X is available with various base plates suitable for a variety of surfaces so it can be used almost anywhere.

The Lock X system was specially developed for trapezoidal sheeting and sandwich elements to cut out the long-winded process of mounting on the substructure of the trapezoidal roof sheeting. Compared to other Lock X systems it has a special foot plate so it can be mounted on nearly all common trapezoidal sheeting. In cases where the insulation material is on top of the trapezoidal sheeting this system can be implemented using special spacer screws. Mounting to the trapezoidal sheeting or sandwich element is actually done using a special mounting kit consisting of four toggle bolts and sealant material. Each Lock X only takes between 5 to 10 minutes to

mount as a result. Mounting is simply done by drilling a hole through the trapezoidal roof sheeting. The toggle bolt is then inserted into the hole and screwed tight. An integrated rubber seal ensures that the hole is watertight and that the Lock X is thermally isolated.

The system is available in lengths up to 1.0 m. An additional supporting rod is used if the Lock X is mounted as either an end or corner support for a cabling system.

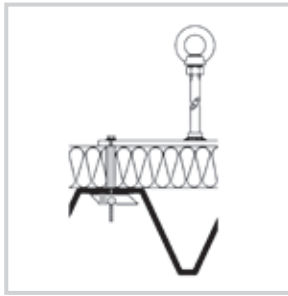
In cabling systems where the supports need to have a height of 300 mm or more the Lock X/SR, consisting of a 42 mm stainless steel rod, is used.

The Lock X is designed to buckle under the stress of a fall to absorb the ensuing bulk of the force. The Lock X is licensed for materials with as little as 0.5 mm thickness.





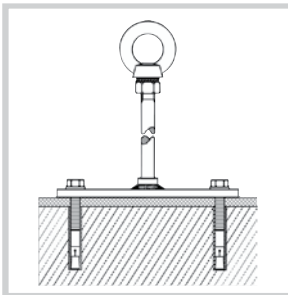
## Applications



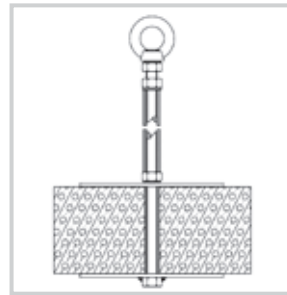
Trapezoidal sheeting



Sandwich panels



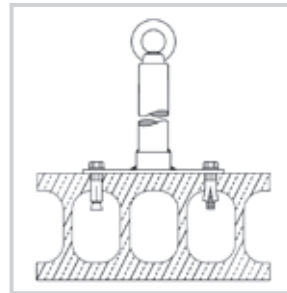
Bolted into concrete (B25)



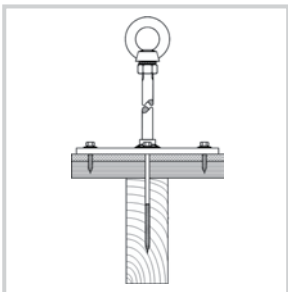
Clamped onto lightweight concrete, mounted from above



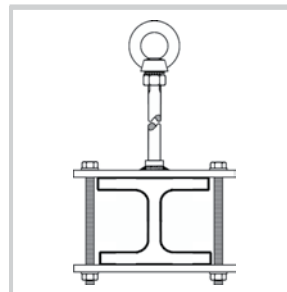
Screwed into wooden rafters (no base plate, with four screws)



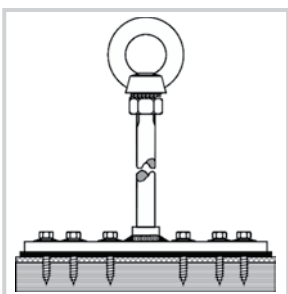
Doweled into reinforced concrete suspended ceilings



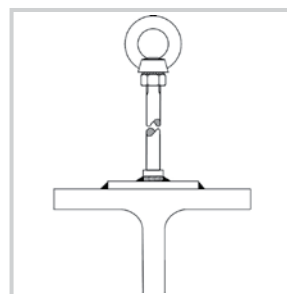
Screwed into wooden rafters with topside paneling (with eight short and two long screws)



Clamped around beams, steel girders, lightweight concrete



Screwed onto wooden paneling (base plate with 28 bores, not attached to the substructure)



Welded or bolted onto steel girders





The ABS-Lock® Falz I system was developed to provide a secure anchorage point for up to three individuals simultaneously. The anchorage point is designed for horizontal loads in all directions.

The system is licensed and CE-tested as a class A anchorage point in accordance with DIN EN 795. Being manufactured completely from rust-resistant steel it is protected from corrosion.

It can be mounted on nearly all common seam roof profile sheeting, regardless of the distance between the seams.



### Implementation

The Lock Falz I has a wide, elongated eyelet. This allows three individuals to connect up simultaneously despite the fact that the anchorage point is so small.



The elongated eyelet is designed for all common carabiner hooks. The system is designed to protect up to three individuals simultaneously

against falls and is used on the rounded edge or clipped seam of seam profile sheeting made by Zambelli (RIB-ROOF 465), Corus Bausysteme (Kalzip), Domico (GBS), Rheinzink (Standard) and Aluform (Alufalz/Aludeck) and corresponding profile systems.

This is achieved by clamping the Lock Falz I to the roof profile seam using two canted stainless steel plates. These plates are adjusted to fit the contours of the roof seam. Along the whole length of the top edge of the anchorage device there is an elongated slit to accommodate the connecting element.

The two plates are screwed together using two screws with self-locking nuts once they have been attached to the standing seam of the roofing.





## Stainless Steel Anchorage Point for Metal Seam Rooves



The ABS-Lock® Falz II system was developed to provide a secure single anchorage point for up to three individuals simultaneously. The anchorage point is designed for horizontal loads in all directions. Furthermore, it was also designed as a support for class C cabling systems.

The system is licensed and CE-tested as a class A and C anchorage point in accordance with DIN EN 795. Being manufactured completely from rust-resistant steel it is protected from corrosion.

Freely adjustable seam clamps allow the system to be mounted on seam rooves with a seam distance of up to 620 mm.



### Implementation

The Lock Falz II can also be used as an end or intermediate anchor for class C cabling systems, such as the Lock SYS system. When fitted with only two clamps Falz II can be used as an intermediate bracket, simplifying the installation of larger-scale cabling systems. The Falz II intermediate bracket is fitted with a glide-over cable supporting element in the Lock Sys II and IV systems.

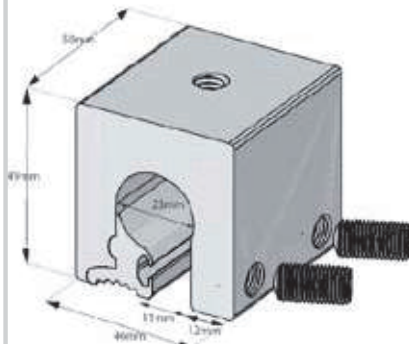


The system is designed to protect up to three individuals simultaneously against falls and is used on

the rounded edge or clipped seam of seam profile sheeting made by Zambelli (RIB-ROOF 465), Corus Bausysteme (KALZIP), Domico (GBS, can also be used for Domitec if special clamps are used), Interfalz (standard) and Aluform (Alufalz/Aludeck). Mounting is also possible on seam rooves made of aluminum, titanium zinc, copper, galvanized and corrosion-resistant steel.

This is achieved by clamping the Lock Falz II to the roof profile seam using four canted corrosion-resistant steel plate fittings. The plates are adjusted to fit the contours of the roof seam. The two plates are screwed together using two screws with self-locking nuts once they have been attached to the standing seam of the roofing. The clamps can be freely adjusted to fit the distance between the seams using the elongated slits.

Mounting Principle



The ABS-Lock® Falz III was developed in accordance with DIN EN 795 to provide a secure and low-cost anchorage point for one individual on rounded-edge seam rooves without having to penetrate the roof and causing leaks.

The Lock Falz III is based on the Falz I which has been further developed to incorporate some excellent features. It is nearly invisible on the roof surface, making it “the architect’s best friend”. Being made of corrosion-proof material the anchorage point is guaranteed a long lease of life.



### Implementation

The Lock Falz III is mounted using specially-designed clamps which match the contours of the rounded edges of the panels. As a result, this anchorage point can be mounted on Kalzip rounded-edge seam rooves or on other similar systems.

Assembling the Lock Falz III is extremely easy, saving you both time and money. The freely-rotating assembly bracket guarantees in the case of a fall that the ensuing force is optimally discharged through the roof construction.



The Lock Falz III has been tested and licensed as a class A and B anchorage point for implementation as an anchorage point for one individual.



## Roof Safety Hook for All Directions of Load



**The ABS-Lock® DH 01 roof safety hook was developed to provide a secure single anchorage point for individuals in all directions of load.**

The system has been licensed in accordance with EN 517 B and additionally tested for use as a class A single anchorage point for all directions of load according to EN 795 (also in the direction of the roof apex and the roof verge). As it is manufactured from galvanized steel the DH 01 is protected from corrosion. Due to the small number of roof hooks required both building costs and architectural interference are kept to a minimum.



### Implementation

The Lock DH 01 system is licensed for use on wooden roof constructions without over rafter insulation. It can be used for hooking up roofer's ladders or as an anchorage point as part of one's personal fall arrest equipment kit. The fall indicator shows when there has been a



fall. Once the indicator has been activated the anchorage point should be replaced.

Our roof safety hooks are not only tested in accordance with EN 517 B but are also tested as a single anchorage point according to EN 795, class A. This achieves maximum security in all directions of load as the roof safety hook not only secures the eaves but also the apex and roof verge. The Lock DH 01 is built using special bolts which safely discharge a load in any direction.

### Mounting Options:

- Directly on a rafter
- Directly on the planking (minimum plank depth 18 mm)
- Directly on the counter lathing (screwed into the planks)



## 8 mm Horizontal Stainless Steel Fall Protection Cabling System without Glide-Over Functionality at the Intermediate Supports



**The ABS-Lock® SYS I system was developed to provide up to ten individuals simultaneously with a safe anchorage point on a stainless steel cable without glide-over functionality at the intermediate supports.**

The system is licensed and tested in accordance with DIN EN 795 as a class C cable protection system with supports spaced at a maximum of 20 m. As the cable and mounting components are manufactured completely from stainless steel they are protected from corrosion.

The Lock SYS I can be used in conjunction with a large variety of ABS-Lock® support systems.



### Implementation

The Lock SYS I system is mounted on the roof surface over system supports from the ABS-Lock® product series. Due to the large range of system supports which can be used, it is extremely variable and easy to install. As a rule it is installed on force-absorbing supports which minimize the ensuing force in the case of a fall. It also reinforces the end and corner supports.

The system offers maximum safety at a low cost as well as unrestricted freedom of movement without glide-over functionality at the intermediate supports.

The Lock SYS I serves to permanently protect individuals from falling. A maximum of ten individuals can be secured simultaneously to

the  $\varnothing$  8 mm stainless steel cable guide. The Lock SYS I is mounted on the horizontal plane. The end connectors can be directly mounted on a suitable building surface or to ABS system supports. The stainless steel cable is attached to the end support using a clevis. Alternatively, the end connection can also be made using the force-absorbing end lock (for short cabling systems).

An intermediate support is positioned every 7 to 10 m. No additional reinforcements are required, thus keeping costs down. The cable is pre-tensioned manually using the tensioning element. The carabiner hook attached to the individual's personal protection kit is used to directly connect up to the Lock SYS I system's stainless steel cable.





## 6 mm Horizontal Stainless Steel Fall Protection Cabling System without Glide-Over Functionality at the Intermediate Supports



The ABS-Lock® SYS III system was developed to provide a secure, low-cost anchorage solution to connect up to 4 individuals simultaneously to a 6 mm diameter stainless steel cable without glide-over functionality at the intermediate supports.

The system is licensed and tested in accordance with DIN EN 795 as a class C fall protection cabling system with supports spaced at a maximum of 20 m. As the cable and mounting components are manufactured completely from stainless steel they are protected from corrosion. The Lock SYS III can be used in conjunction with a large variety of ABS-Lock® support systems.



### Implementation

The innovative new Lock SYS III system, based on a 6 mm stainless steel cable, is mounted on the roof surface over system supports from the ABS-Lock® product range. Due to the large range of system supports available, it is extremely

variable and easy to install. As a rule it is installed on force-absorbing supports which minimize the ensuing force in the case of a fall. It also reinforces the end and corner supports.

The system offers maximum safety at low cost as well as unrestricted freedom of movement without glide-over functionality at the intermediate supports.

The 6 mm system serves to secure up to 4 individuals. Mounting is carried out on the horizontal plane. An intermediate support is positioned every 7 to 10 m.





## 8 mm Horizontal Stainless Steel Fall Protection Cabling System with Full Glide-Over Functionality at the Intermediate Brackets



The ABS-Lock® SYS II system was developed to provide up to four individuals simultaneously with a secure anchorage system, achieved using a cable glider and stainless steel cable. The system is designed in such a way as to allow full glide-over functionality.

The system is licensed and CE-tested as a Class C fall protection cabling system in accordance with DIN EN 795. As the cable and mounting components are manufactured completely from stainless steel they are protected from corrosion. The Lock SYS II can be installed with a large variety of von ABS-Lock® support systems.



### Implementation

The Lock SYS II system was developed primarily for industrial usage and is implemented in such areas as building frontages, crane systems, truck loading and bus, plane and train maintenance halls.

The intermediate supports and system corners are fully traversable. All the components are also designed to allow overhead implementation.

Various Lock SYS II cable gliders are available for implementation in this manner:

We recommend our GLEIT RO cable glider (please refer to the photo below) for straight overhead cabling stretches, e.g. along maintenance hall rooves. This can easily be combined with a self-retracting lifeline and glides smoothly over all the intermediate brackets.

Ideal glide-over properties are the result of combining our GLEIT II glider (photo bottom right) with a stainless steel cable - the corners being no exception. It is not necessary to detach and reattach or remove the glider.



## 6 mm Horizontal Stainless Steel Fall Protection Cabling System with Full Glide-Over Functionality at the Intermediate Supports



The ABS-Lock® SYS IV system was developed to provide up to 4 individuals with permanent fall arrest protection in areas where the chance of falling is high.

The system is licensed and CE-tested as a class C fall protection cabling system in accordance with DIN EN 795, whereby the distance between the supports can measure up to 20 m. As the cable and mounting components are manufactured completely from stainless steel they are protected from corrosion. The Lock SYS IV can be installed with a large variety of ABS-Lock® support systems on a variety of different surfaces.



### Implementation

The Lock SYS IV system is mounted on the roof surface over system supports from the ABS-Lock® product range, for example. As a rule it is installed on force-absorbing supports which minimize the ensuing force in the case of a fall (otherwise a force-absorbing element is used). It also reinforces the end and corner supports.

The Lock SYS IV was developed for use on flat rooves. It is easy and quick to install – proving its worth. The 6 mm stainless steel cable excels through its high flexibility, making installation fast and simple. Both the corner elements and the intermediate bracket are fully tra-

versable using the specially-developed glider.

This universal glider was developed using a special bronze alloy found to have optimum characteristics with regard to gliding over the stainless steel cable. The cable glider can be attached or removed at any point within the system to become part of one's personal protective equipment kit (abbrev.: PPE). It is very easy to use.



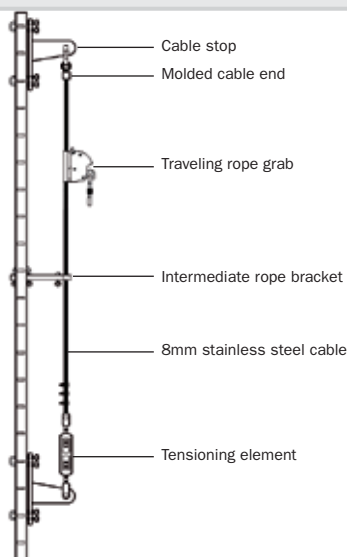
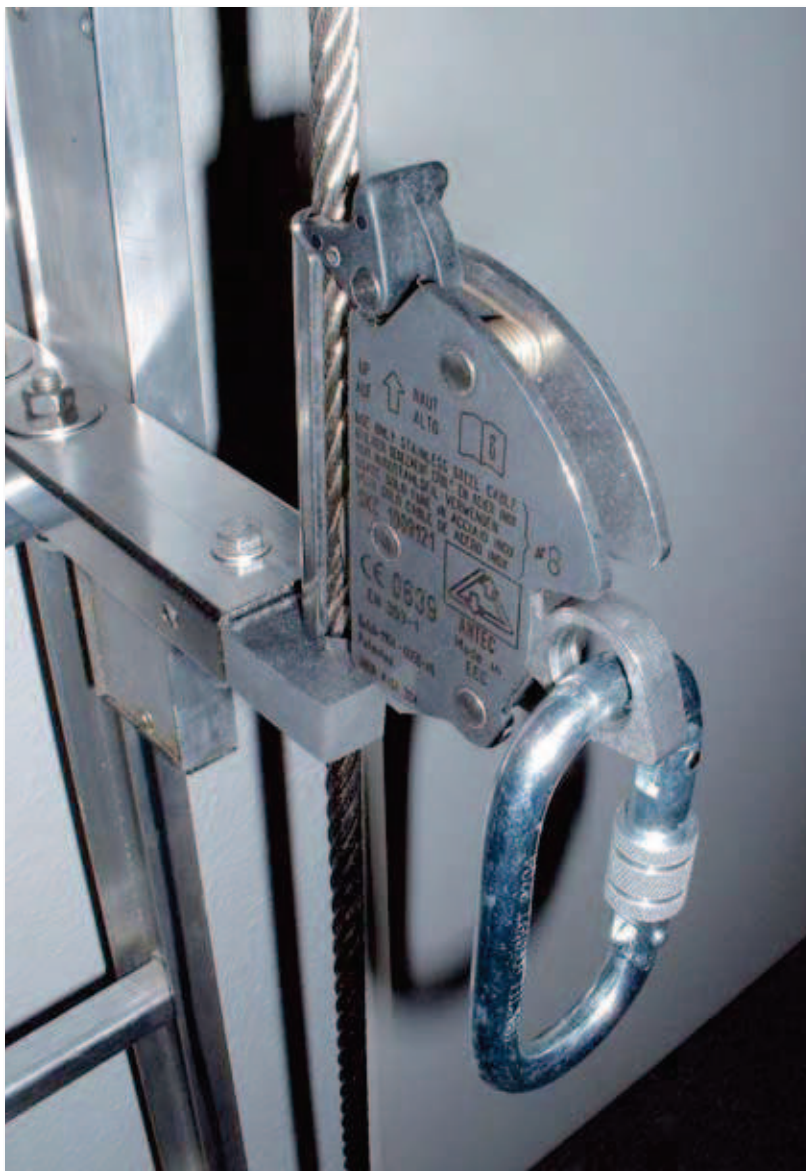
# ABS-Lock® Vertical Lifeline **ABS**

## Vertical Fall Protection Cabling System



The ABS-Lock® vertical lifeline system was developed to provide a secure anchorage point for individuals. The system is designed for vertical usage.

The system is licensed and tested in accordance with DIN EN 353-2 (PPE: guided type fall arrester with a flexible anchor line). Being manufactured from stainless steel it is protected from corrosion.



### Implementation

The system can be installed on all substructures, such as the exit onto the roof, building frontages, ladders, masts etc.

The vertical lifeline system is used to secure vertical ladder sys-

tems, e.g. spotlight masts. The glider itself is designed in such a way that it runs alongside as one climbs up or down the ladder. In the case of a fall the glider locks in place, thus preventing the user from falling.



## Stainless Steel Anchorage Point for Steel Girders



The ABS-Lock® T system was developed to provide a secure single anchorage point for 3 individuals simultaneously.

The system has been tested as a class A and B anchorage point in accordance with EN 795. The Lock T has also been class C tested for use as an end, corner or intermediate support for cabling systems, such as the Lock SYS.

The Lock T is made of stainless steel and weather-proof steel clamps - qualities which protect the anchorage point from corrosion.



### Implementation

The anchorage point is designed for loads in all directions. Assembly is done using two girder clamps. The Lock T can be mounted quickly and cheaply without damaging the steel girder (e.g. through drilling).

The Lock T is fitted with a threaded bolt adjusted depending on the width of the girder. This means that it can be used with nearly any girder size and can be adjusted as required. The two clamp elements can be used for girder flange widths between 8 and 16 mm.



### Advantages of the Lock T:

- High-quality components
- Extremely quick assembly
- No drilling or welding
- For 3 individuals simultaneously
- For loads in all directions
- Horizontal or vertical assembly



## Detachable Stainless Steel Anchorage Point



**The ABS-Lock® I+II system was developed to provide a secure, detachable single anchorage point for two individuals simultaneously.**

The system is licensed and CE-tested as a Class A and B anchorage point in accordance with DIN EN 795. Being manufactured completely from stainless steel protects it from corrosion. Its compact dimensions make it easy to install and the use of various protective caps makes it difficult to discern.



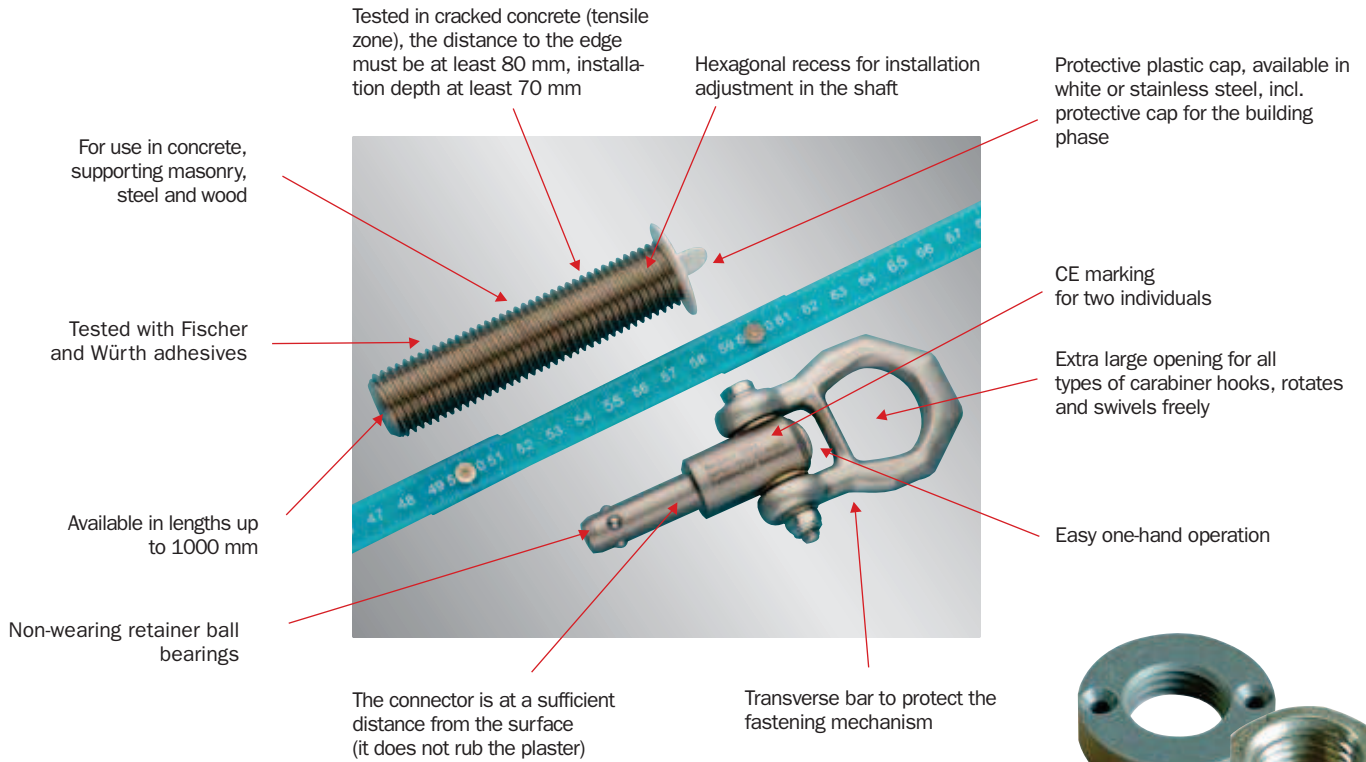
### Implementation

The Lock I+II system is licensed for implementation in steel constructions and wooden substructures as well as in concrete and masonry.

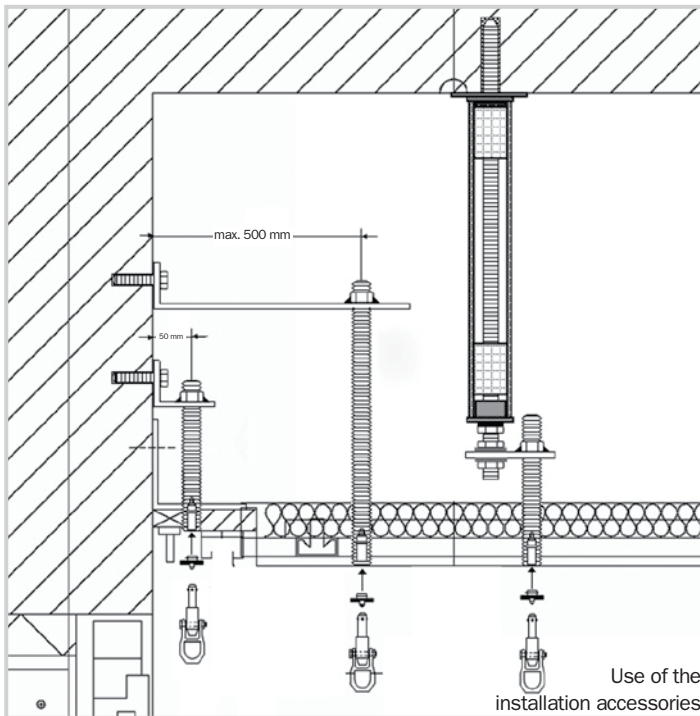
This system is used particularly as a detachable anchorage point. The Lock II (sleeve) is firmly mounted in the masonry, concrete (also cracked) wood or steel and covered with a protective cap, hiding it from view. The Lock I (socket pin) is connected to the personal protective

equipment using a carabiner hook and can be inserted into any Lock II sleeve. A system of retainer ball bearings ensures a secure connection. The fastening mechanism, which is protected against accidental operation, can be simply released with one hand.

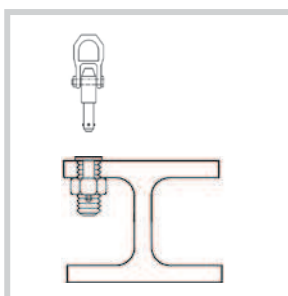
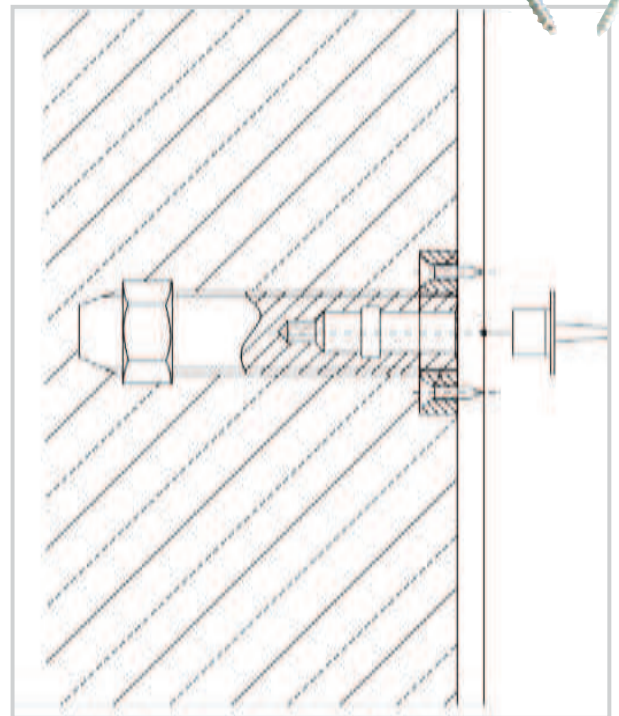
For use on steel constructions, such as shipping containers etc., we supply a 30 mm version with a welded-on hexagonal plate and self-locking nuts.



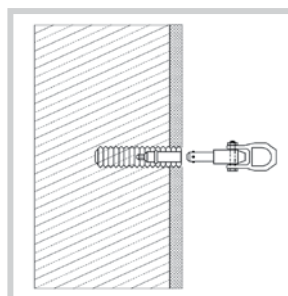
#### Suspended ceiling applications



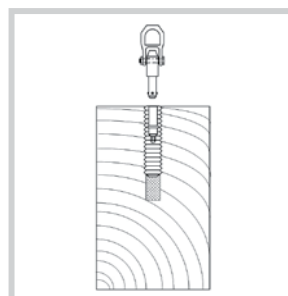
#### Concreted in with installation aid



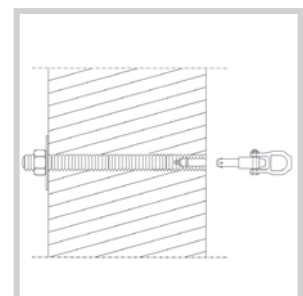
On steel girders



In concrete and walls when installing on ceilings covered with plaster, thermal insulation etc.



In wood



In supporting masonry

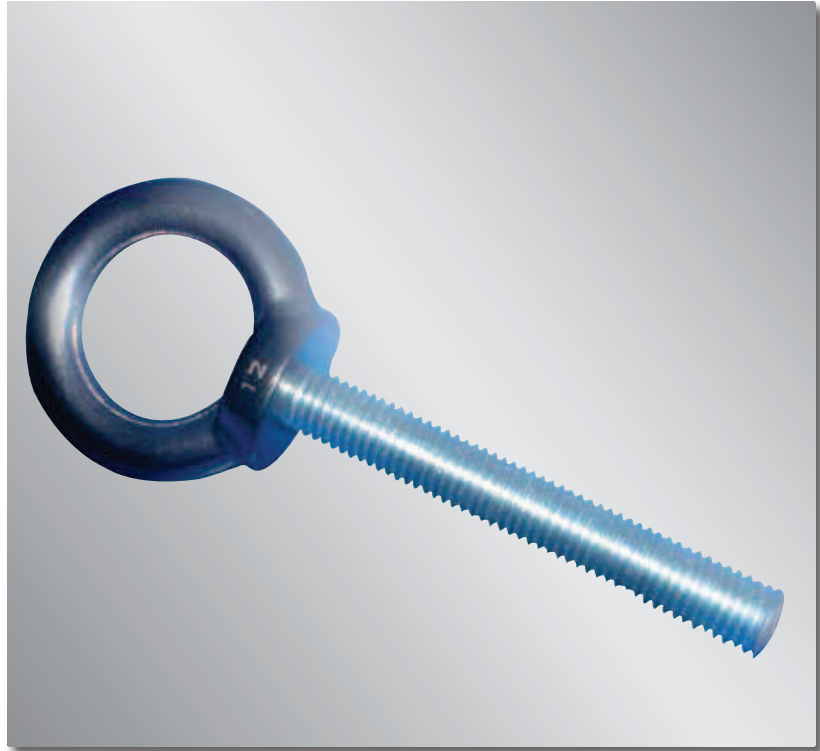


## Permanent Stainless Steel Single Anchorage Point



**The ABS-Lock® IV system was developed to provide a solid anchorage point for one individual.**

The system is licensed and CE-tested as a class A and B anchorage point in accordance with DIN EN 795. Being manufactured completely from stainless steel it is protected from corrosion. Its small size means it is easy to mount and blends in with the substructure.



### Implementation

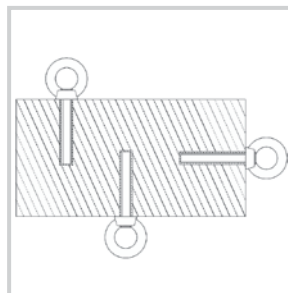
The Lock IV system is licensed for steel (steel girders) and concrete implementation.

The anchorage point excels through its small dimensions. Due

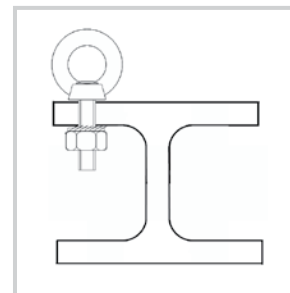
to its low storage costs the Lock IV can be supplied in large quantities at short notice. Installation is easy, cost-efficient and very quick.



### Applications

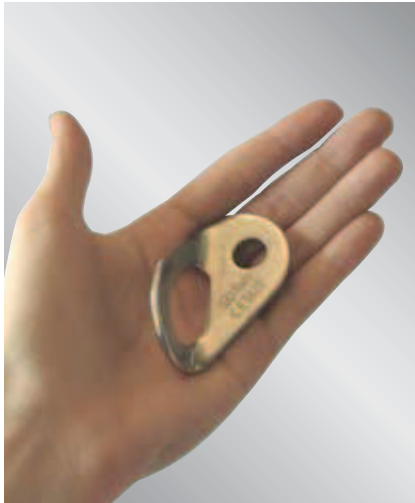


In concrete (lateral or overhead installation also possible)



On steel girders

## Permanent Stainless Steel Single Anchorage Point



**The ABS-Lock® V system was developed to provide a secure single anchorage point for one individual.**

The system is licensed and CE-tested as an anchorage point, classes A+B, in accordance with DIN EN 795.

Being manufactured completely from stainless steel it is protected from corrosion. Its compact dimensions and special angular form means it is easy to mount and blends in with the substructure.

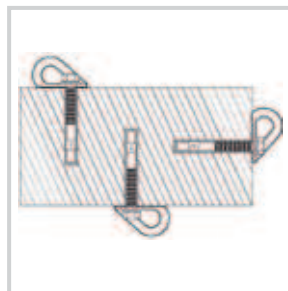


### Implementation

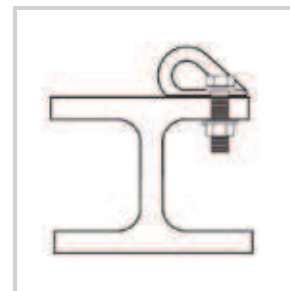
The Lock V system is licensed for implementation in steel constructions and concrete. When mounted in concrete a special concrete plug is used. This special plug has also been tested with cracked concrete (tensile zone).

This anchorage point excels through its compact dimensions. Due to its low storage costs the Lock V can be supplied in large quantities at short notice. Installation is easy, cost-efficient and requires only a short amount of time.

### Applications



In concrete (lateral or overhead installation also possible)



On steel girders



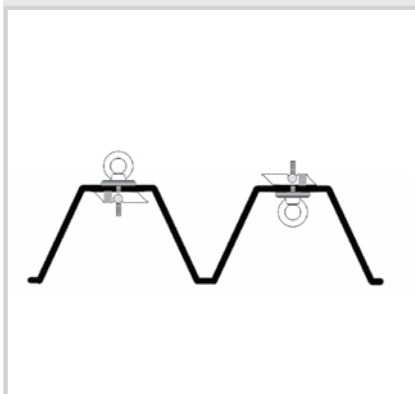
## Single Anchorage Point for Individuals and for Suspending Safety Nets



The ABS-Lock® VI system was developed to provide both a secure single anchorage point for individuals and an anchor point for personal safety nets.

The system is licensed and tested in accordance with DIN EN 795, classes A and B, and as an anchorage point for safety nets in accordance with DIN EN 1263-1. Being manufactured from stainless steel protects the Lock VI from corrosion. The ABS toggle bolt allows the system to be mounted on various metal constructions

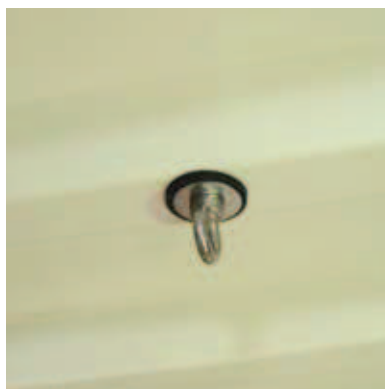
### Applications



### Implementation

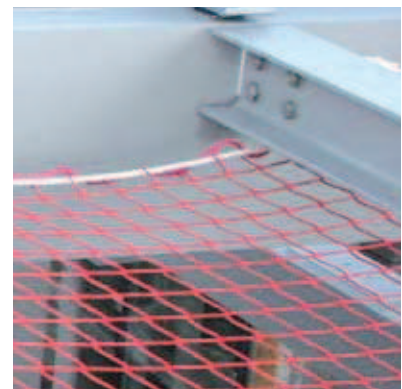
The Lock VI can be used for metal plates only 0.88 mm thick (anchorage point for individuals), respectively 0.75 mm (safety nets)!

Mounting is done using the toggle bolt. A 20 mm hole is drilled in the targeted steel surface and the



toggle bolt is then inserted, pulled taut and screwed tight.

The Lock VI is tested for a maxi-



mum characteristic load of 10kN in accordance with EN 795 (starting with a metal plate depth of 0.88 mm), respectively 6kN (starting with a plate depth of 0.75 mm) according to Figure 5.2 DIN EN 1263-2 (safety requirements for suspending safety nets).

The anchorage point is fitted with an integrated sealant ring which restores the imperviousness of the steel construction.



## Transportable Window Guard

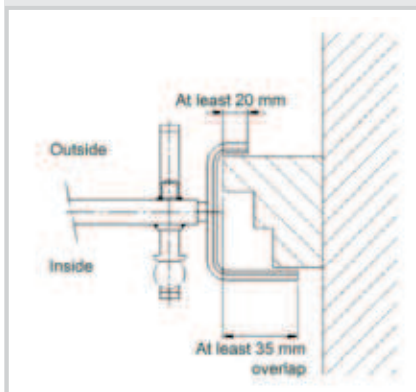


The ABS FSG 01-05 system was developed to protect individuals from falling when working at windows. The window guard is transportable so it can be removed from one window and installed at another.

The system is licensed and tested for a load of up to 125 kg in accordance with the European EN HD 1000 standard.

Due to its various sizes and variable adjustment range it can be used for window widths of between 400 and 1720mm. It is easy to transport due to its small size: 400 or 770 mm respectively. It is not necessary to prepare the building structurally for the system, which can be used for all frame widths up to 90 mm.

### Applications



### Implementation

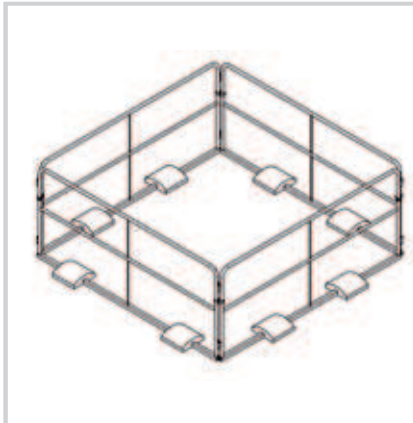
After first setting it up on the floor, the pre-adjusted window guard is positioned on the windowsill with the U-shaped bracket encompassing the window frame. One side of the each vertical window frame section is covered by the extendable clamps. The guard slips firmly into place between the frame and the casement, securing it from tilting. After having adjusted the extendable clamps on the other side to correspond to the maximum

window width, the device is locked in place: The window guard is now firmly installed in the window frame. This tried and tested protection system can be set down on the ground, is freestanding and can be easily installed at the window by the person requiring protection.

Warning: The system is not designed for holding on to, leaning on to with one's whole bodyweight for a longer period of time or for use as a stepladder.

Product	Adjustment Range	Weight
FSG 01	400 - 910 mm	5,2 kg
FSG 02	770 - 1720 mm	6,9 kg
FSG 03	400 - 730 mm	2,9 kg
FSG 04	700 - 1160 mm	3,9 kg
FSG 05	1110 - 1570 mm	4,9 kg

## Self-Supporting Guard Rail for Domed Rooflights



The ABS SkyDome system was developed to provide a simple but effective fall arrest system for individuals around domed rooflights - without having to penetrate the flat roof membrane.

The system is licensed and tested as a guard rail in accordance with DIN EN ISO 14122-3 (permanent means of access to machinery, section 3). Being manufactured completely from hot-galvanized steel the SkyDome is protected from corrosion. The system's firm, non-slip grip originates from several concrete slabs, each weighing 15 kg, which have been specially designed for the system.

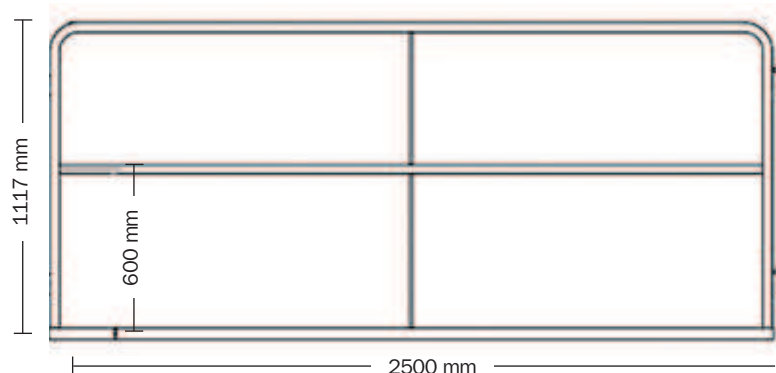


### Implementation

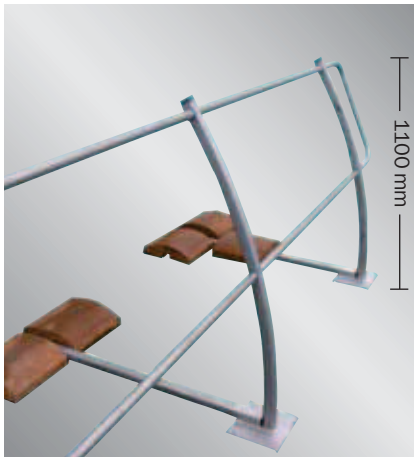
The system is held in place by the weight of eight concrete elements, each weighing 15 kg, rendering penetration of the roof membrane – which could negatively impact the roof impermeability – superfluous. The concrete elements are positioned on synthetic matting which protects the installed roof sealant layer from damage. Optionally, the system can also be supplied with

an extra door opening in case the domed rooflight is used for entry or exit purposes.

The individual side elements are simply joined up by slotting them together and fixed firmly in place using a quick-to-install clamping element. The SkyDome is available with the following dimensions: 2.5 m x 2.5 m. More sizes available upon request.



## Self-Supporting Guard Rail



The ABS Stabilik guard rail system was developed as a guard rail without roof penetration or permanent mounting. It is used on flat rooves and is designed to protect individuals.

The system is licensed and tested as a guard rail in accordance with DIN EN ISO 14122-3 (permanent means of access to machinery, section 3). Being manufactured completely from hot-galvanized steel the Stabilik is protected from corrosion. The system's firm, non-slip grip originates from several concrete slabs, each weighing 15 kg, which have been specially designed for the system.



### Implementation

This guard rail is implemented wherever roof parapet installation is either difficult or impossible. Generally, it is used when buildings are renovated and is installed directly on the accessible surface so that there are no problems later with a view to restoring the impermeability of the roof.

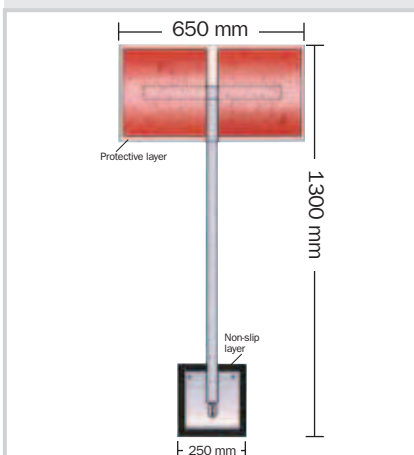
It is not necessary to drill any holes into the building itself. Two concrete weights, each weighing 15 kg, provide the rail with stability and resistance. The slab has a non-slip layer underneath and there is a protective layer under the slabs (if

these are positioned on the sealant layer).

If the guard rail is to be positioned on a soft sealant layer on trapezoidal sheeting we recommend checking the compatibility of the system with regard to the pressure exerted by the guard rail.

### Please note:

Where self-supporting guard rails are used the maximum permissible roof surface tilt is 10°. For a roof with a slope > 10° please check with ABS Safety first.





## ABS - Mobile Anchorage Devices & ABS ASK 5 - Horizontal Anchorage Device



1

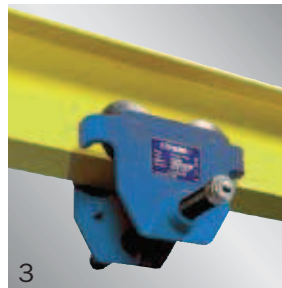
### ABS - Mobile Anchorage device in accordance with EN 795

Mobile anchorage devices are designed for temporary implementation and can be dismantled and remounted at any chosen time. This means that they can be easily used for occasional access to areas where there is a danger of falling. The anchorage devices are tested and licensed as anchorage points for securing individuals in accordance with EN 795.

- 1 ABS door traverse, adjustable (550 - 1100 mm)
- 2 Vertical lifelines - various models
- 3 Beam trolley for steel girders, flange widths 50 - 220 mm
- 4 Girder glider M for flange widths 120 - 380 mm



2



3



4



### ABS ASK 5 – Horizontal anchorage device

The ABS ASK 5 is a horizontal anchorage device in accordance with EN 795 classes B + C. It is designed for temporary implementation on flat rooves and is hooked up to pre-mounted anchorage points (securing points).

- Anchorage device for horizontal mounting on flat or sloping rooves made of 16 mm polyamide cable
- At one end: Firmly-attached spliced aluminum carabiner with screw safety device; At the opposite end: Cable clamp ASK 5 as tensioning element
- Two movable carabiners which can be attached to intermediate brackets (max: distance: 7.5 m)

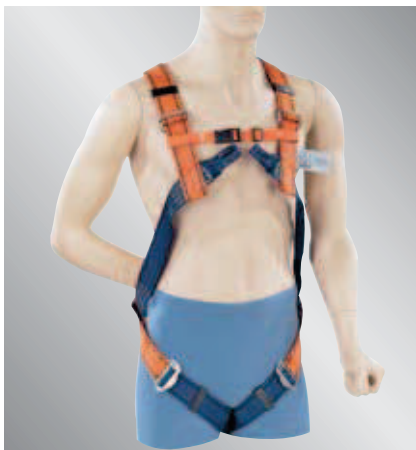
- Two movable carabiners which can be attached to intermediate brackets (max: distance: 7.5 m)

Optimale Aufbewahrung bietet der ABS Care + Schutzausrüstungsaufbewahrungsschrank.

Verschließbar und einfach an der Wand in Innenräumen montierbar.



with Harness, Lanyard and Protective Equipment Bag



The ABS PPE set contains an ABS 802 safety harness, a lanyard where the length can be adjusted individually up to 15 m and a protective bag (optionally a rucksack, transport bag or steel plate transport box).

The safety set is particularly suitable for working on rooves and ladders as well as at windows and on cladding.



## **Harness**

The ABS 802 fall protection harness, which conforms to EN 361, offers both chest safety and dorsal arresting rings

## **Lanyard**

The connector incorporates a traveling rope grab with a lanyard shock absorber. It is licensed for both horizontal and vertical usage

## **Protective Bag**

Depending on the area of application we offer a robust rucksack, a bag or a steel plate transport box (painted red). This ensures that your protective equipment is transported and stored both safely and securely when not in use.



## **ABS SK 12-16/BFD – Traveling Rope grab**

The ABS SK 12-16/BFD is a connector device made of sharp edge-tested kernmantle cable with a lanyard shock absorber and flexible guides. It has been tested and licensed in accordance with EN 353-2.

The SK 12-16/BFD traveling rope grab runs freely in the direction

of the anchorage point. During descent it runs along the tightened cable independently but can also be fed by hand manually. In the case of a fall, the cable is arrested by the device's clamp lever. The ensuing shock force is distributed by the lanyard shock absorber.

