

**FALLPROTEC**

Height Safety Products

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**FALLPROTEC**  
FOR METAL FACTORIES





📍 Wallerich Factory, Luxembourg

# RISKS ON METAL FACTORIES

The International Labour Organization's\* identifies more than 27 hazards in the iron and steel industry that contribute to accidents and injuries. The biggest dangers include Falls from height.

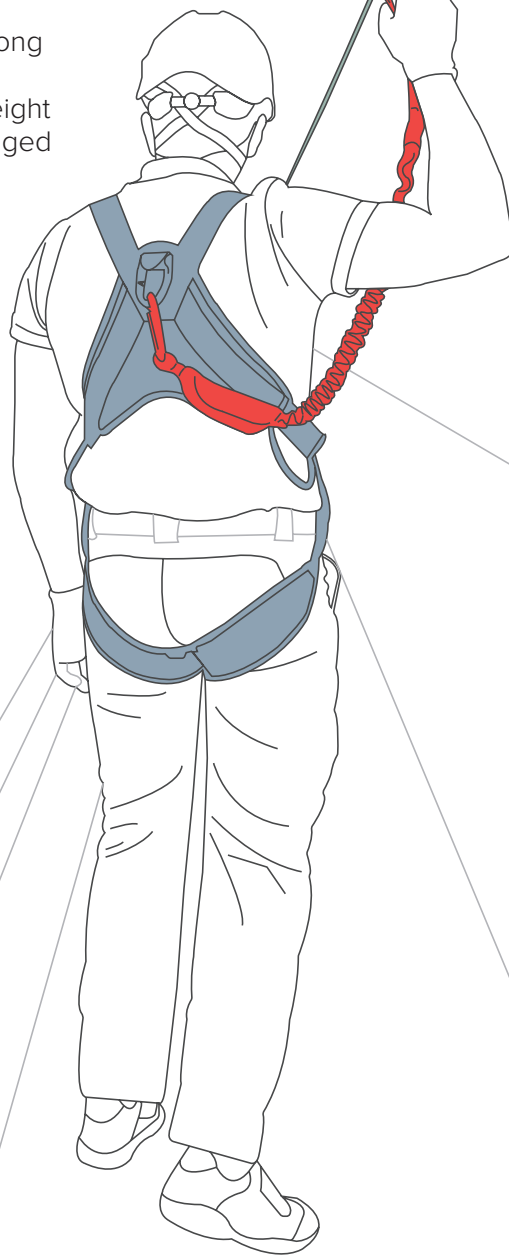
Steel work often involves significant heights, uneven ground and obstructed walkways. It's no surprise that slips, trips and falls are the number one cause of injuries among steel workers worldwide.

Source:  
[https://www.ilo.org/wcmsp5/groups/public/---ed\\_protect/---protrav/---safework/documents/normativeinstrument/wcms\\_112443.pdf](https://www.ilo.org/wcmsp5/groups/public/---ed_protect/---protrav/---safework/documents/normativeinstrument/wcms_112443.pdf)



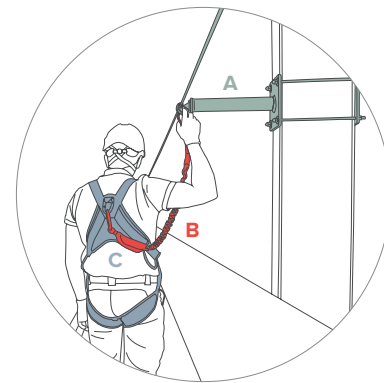
# Maintenance of machinery and mobile overhead cranes

If there is no collective protection to eliminate the risk of falling, workers must be provided with and trained in the use of appropriate fall protection equipment, such as lifelines and EPIs. Likewise, an appropriate and timely rescue should be provided to prevent suspension trauma. Founded in a historically strong mining area, Fallprotec has developed fall arrest and height access solutions acknowledged by the steel industry.



Industrial applications have a low fall clearance due to the strong presence of machinery below the walkways. Fallprotec recommends installations with fall factors  $\approx 0$  (overhead)

# Fall Protection Equipment



**A**

## Anchorage

Structure capable of supporting 6kN per user attached as part of a complete personal fall arrest system which maintains a safety factor of at least two.

### Fallprotec lifeline systems:

- 1) SecuRope Cable Lifeline: A highly resistant cable system with components in stainless steel AISI316.
- 2) SecuRail Rail Lifeline: A highly resistant rail system with components in anodized aluminium. Optimal solution when there is a low fall clearance. Both systems are suitable for intensive use in complex industrial environments. Its components are reliable and durable.

### Fixing brackets:

Fallprotec's internal engineering department offers bespoke fixation assemblies, adapted to various beam sizes and distances between them and walkways.

**B**

## Connecting Devices

PPE Equipment with energy-absorbing element to reduce the energy transmitted to the user's body in the event of a fall. Products such as shock absorbing lanyards or self-retracting lifelines connect a worker's harness to the anchorage.

### Fallprotec PPE:

- 1) Elastic single and double lanyards of 1,5m or 2m length.
- 2) Self-retractable fall arresters from 2 - 65m length, with aluminium casing, webbing strap or galvanised steel rope.

**C**

## Body Support

A safety harness is a personal protective equipment (PPE) that is designed to catch a person in the event of a fall while working at height. Our full body harness distributes fall arrest forces across the shoulders, thighs and pelvis.

- 1) Two anchor points harness type Prolight or Tempo.
- 2) Elastic two anchor points harness.

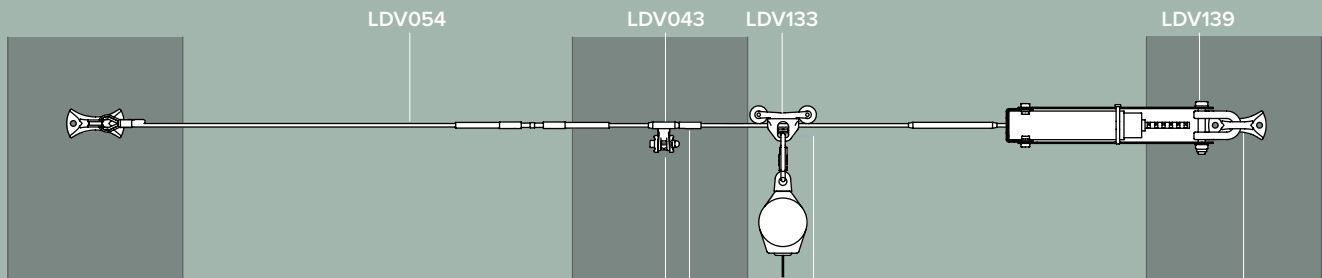
SecuRope lifeline on wall configuration with glider LDV133. The wall configuration is the most used in Industrial halls due to the high ceilings height. For this type of configuration Fallprotec suggests the cable LDV005 construction 1x19 and  $\varnothing$  8mm which reduces even more the deflection of the cable and thanks to its properties it is more resistant than others to high temperature conditions and corrosive environments.

[Click here to visit the online product page](#)

**EN795:2012 Type C CEN/TS16415:2013**



x 4  
(2 users max. per span)



The cable guide located on a plan forming angle of 45° with the horizontal plane increases the absorbing-energy asset of the system

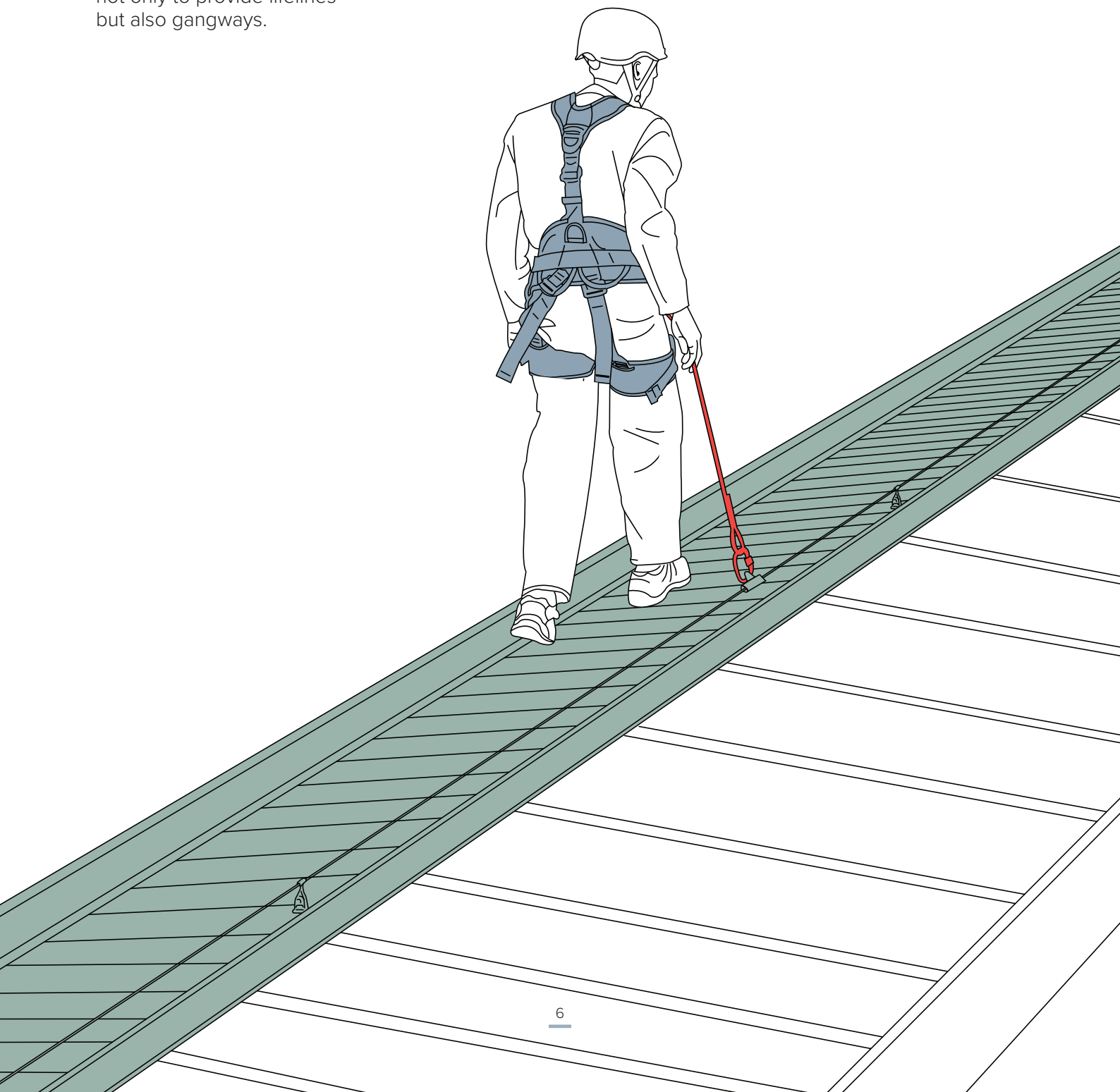
Thanks to the cable crimping technology, the cable deflection is reduced in order to stop the fall in the shortest distance possible.

The LDV133 is the proper glider when the connecting device is a self-retractable fall arrester that weights 10 kg or less. The glider passes smoothly over the intermediate anchors. The end user can move freely along the lifeline without disconnecting and hands-free to operate with tools. If the user is less than 3 m below the life line, 2 m absorbing lanyard, connects the user to the captive glider LDV060.

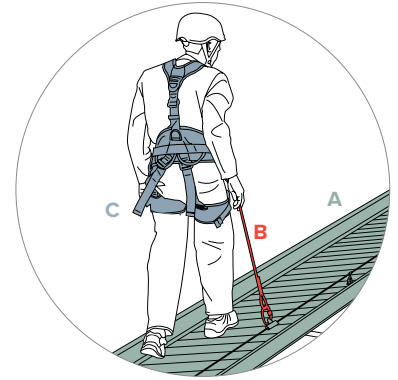
With its integrated energy absorbing mechanism, it reduces the load transmitted to the host structure.

# Maintenance of roofs

Due to the pollution produced by steel production, the roofs of steel mills are very corroded and fragile. Many of them are from the beginning of the 20th century! Work at height in that roofs is a high-risk activity not only for the risk of falling from the edge but also falling through. Fallprotec is capable not only to provide lifelines but also gangways.



# Fall Protection Equipment



**A**

## Anchorage

A gangway capable of supporting 6kN per user attached as part of a complete personal fall arrest system which maintains a safety factor of at least two.

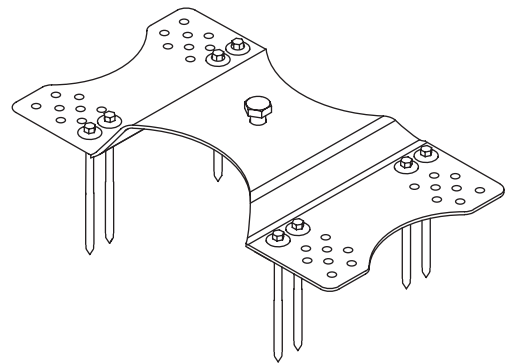
## Lifeline systems

- 1) SecuRope Cable Lifeline.
- 2) SecuRail Rail Lifeline: Optimal solution when there is a low fall clearance. Both systems are suitable for intensive use in complex industrial environments. Its components are reliable and durable.

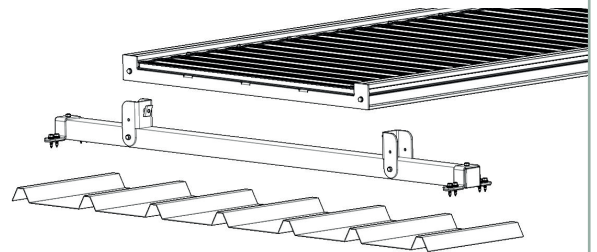
## Fixing brackets

Fallprotec's internal engineering department offers lifeline fixation assemblies for fragile roofs. The fixing assembly on metallic purlin in AISI304 is the most common for steel mill roofs. The supply of the gangway and self drilling screws to the purlin depends on

## Fixing assembly on metallic purlin LDV137



## Gangway fixing assembly on fragile roofs



**B**

## Connecting Devices PPE

Elastic single and double lanyards of 1,5m or 2m length.

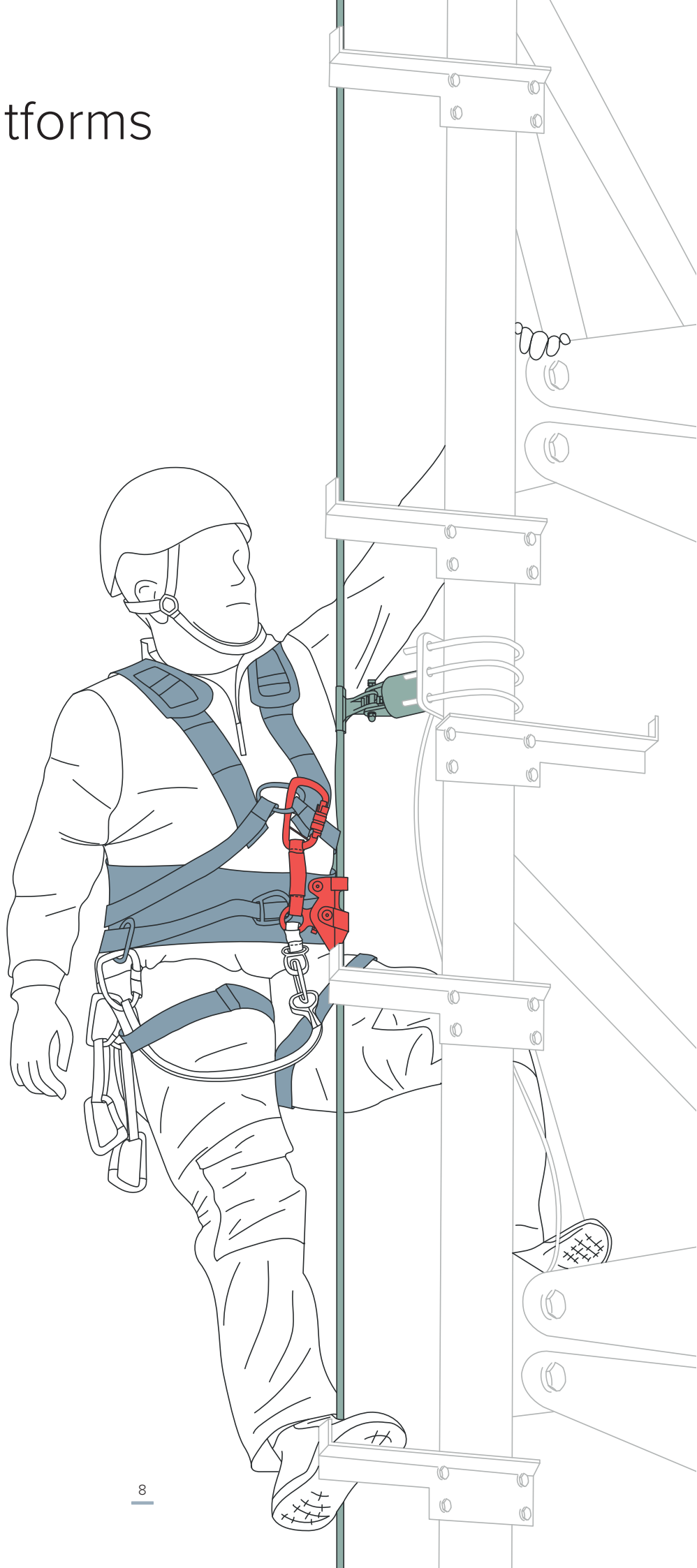
**C**

## Body Support

- 1) Two anchor points harness type Prolight or Tempo.
- 2) Elastic two anchor points harness.

# Access to platforms and industrial catwalks

Steel mills are full of ladders to access the platforms or catwalks not equipped with stairs with guardrails and handrails. Workers must be provided with fall protection anchoring equipment to prevent falls while climbing, such as lifelines and harnesses. Fallprotec has developed a vertical lifeline to be permanently installed on that ladders where the user, fitted with a harness, is attached to the vertical line by means of a mobile fall arrester circulating along the line.

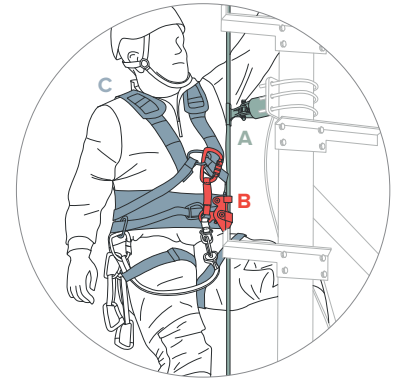


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The galvanizing/tinning mill is often associated with high concentrations of sulphuric acid and hydrochloric acid fumes. The Fallprotec lifeline components made in stainless steel have good corrosion resistance produced by these chemicals.



# Fall Protection Equipment



**A**

## Anchorage

Structure capable of supporting 6kN per user attached as part of a complete personal fall arrest system which maintains a safety factor of at least two.

### Fallprotec lifeline systems:

SecuRope Vertical Cable Lifeline: A highly resistant cable system with components in stainless steel AISI316.

System suitable for intensive use in complex industrial environments. Its components are reliable and durable.

### Fixing brackets:

Fallprotec's internal engineering department offers bespoke fixation assemblies, adapted to various beam rungs and distances between them.

**B**

## Connecting Devices

PPE Equipment with energy-absorbing element to reduce the energy transmitted to the user's body in the event of a fall.

Products such as shock absorbing lanyards, fall arresters or self-retracting lifelines connect a worker's harness to the anchorage.

### Fallprotec PPE:

Mobile fall arrest Zip: It allows easy movement up and down, even to pass the anchors. It immediately locks onto the cable in case of a fall.

**C**

## Body Support

A safety harness is a personal protective equipment (PPE) that is designed to catch a person in the event of a fall while working at height. Our full body harness distributes fall arrest forces across the shoulders, thighs and pelvis.

1) Two anchor points harness type Prolight or Tempo.

2) Elastic two anchor points harness.



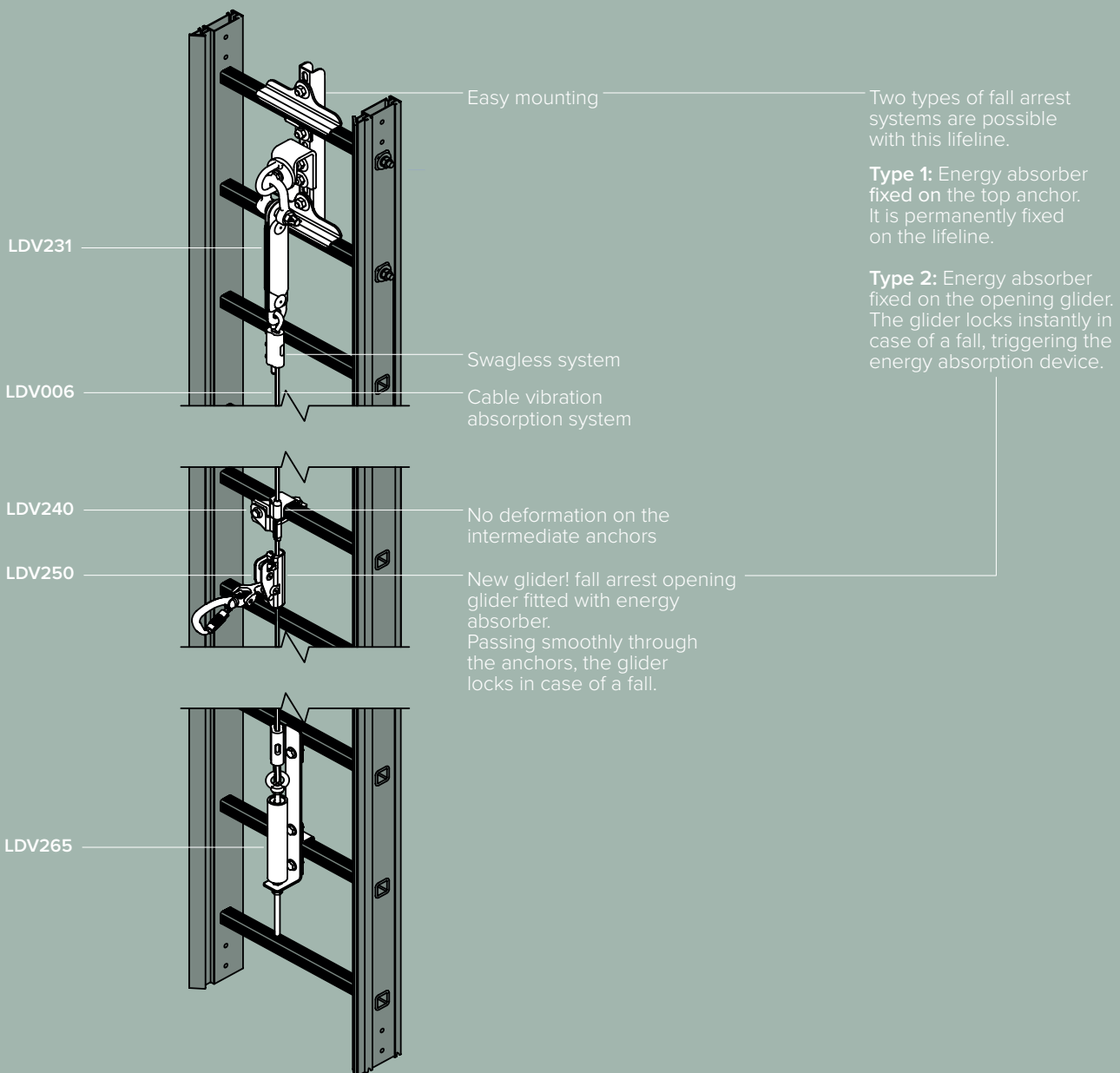
Click here to visit the online product page

Fallprotec provides a vertical cable lifeline Securope. It can indeed be retrofitted on an existing ladder or structure. Installed without crimping, it comes with an opening glider that allows the user to keep safely connected while being capable to connect to the lifeline a whichever time he wishes. The glider blocks automatically in case of a fall. Fallprotec suggests the use of the cable LDV005 construction 1x19 and  $\varnothing$  8mm as it reduces even more the deflection of the cable. It is also more resistant than others to high temperature conditions and corrosive environments.

EN353-1:2014 | PPE Regulation 2016/425



x 4  
(with absorber on the glider)



# Body support - Harnesses



Harness Prolight 2 anchor points automatic buckles  
HAR001/002/003

Harness Tempo 2 anchor points  
HAR020/021/022

Elastic 2 points harness with automatic buckles  
HAR072/073/074

EN361



x 1

KG

0,70

EN361



x 1

KG

0,70

EN361



x 1

KG

0,70








# Connecting devices - PPE



**Elastic lanyard 2m, energy absorber fitted with pivoting carabiner and hook 60mm opening**

HAR076

EN354/355/362





 x 1	 0,60	 2m
 x 1 20mm opening Aluminium	 x 1 60mm opening Aluminium	



**Single lanyard 2 m with energy absorber and 2 twist lock carabiners opening 20mm**

HAR010

EN354/355/362






 x 1	 0,50	 2m
 x 2 20mm opening Zinc plated steel		



**Double elastic lanyard 2m with energy absorber Material 2 carabiners opening 60 mm in alu+ 1 automatic carabiner in zinc plated steel**

HAR077

EN354/355/362





 x 1	 0,80	 2m
 x 1 20mm opening Zinc plated steel	 x 2 60mm opening Aluminium	



**Double lanyard 1,5 m fitted with energy absorber and 3 twist lock carabiner opening 20mm**

HAR016

EN354/355/362

 x 1	 0,79	 1,5m
 x 3 20mm opening Zinc plated steel		



**Ultra robust block with aluminium casing and galva steel rop**

IHWS

EN354/355/362

 x 1	 3,70
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# Fallprotec's products installations in metal factories worldwide

Fallprotec's internal engineering department had offered bespoke solutions for many industrial sites, while working with a worldwide network of specialized installers, in order to master the complete process of securing plants against the risk of fall.

The scope of offered services includes risk assessments, site surveys, engineering, installation, commissioning, inspection and maintenance.

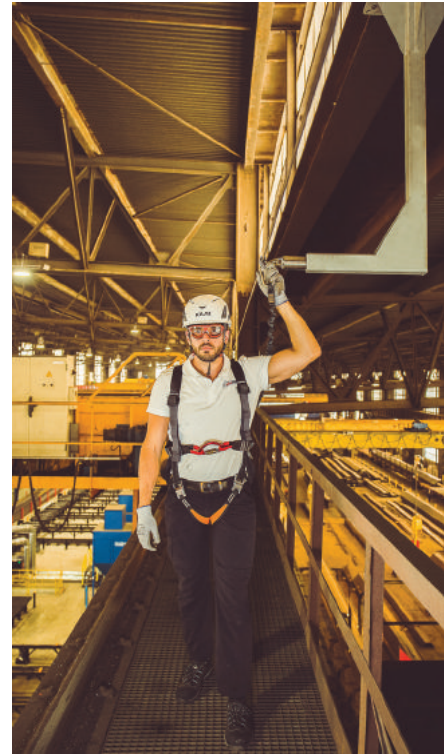
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