INNOTECH
HOW YOU PROTECT LIVES

Lifeline system

# AIO

The classic safety system

AUSTRIA TRUSTED EXPERTISE

Datasheet

# AIO lifeline system

## The proven lifeline system with many variants

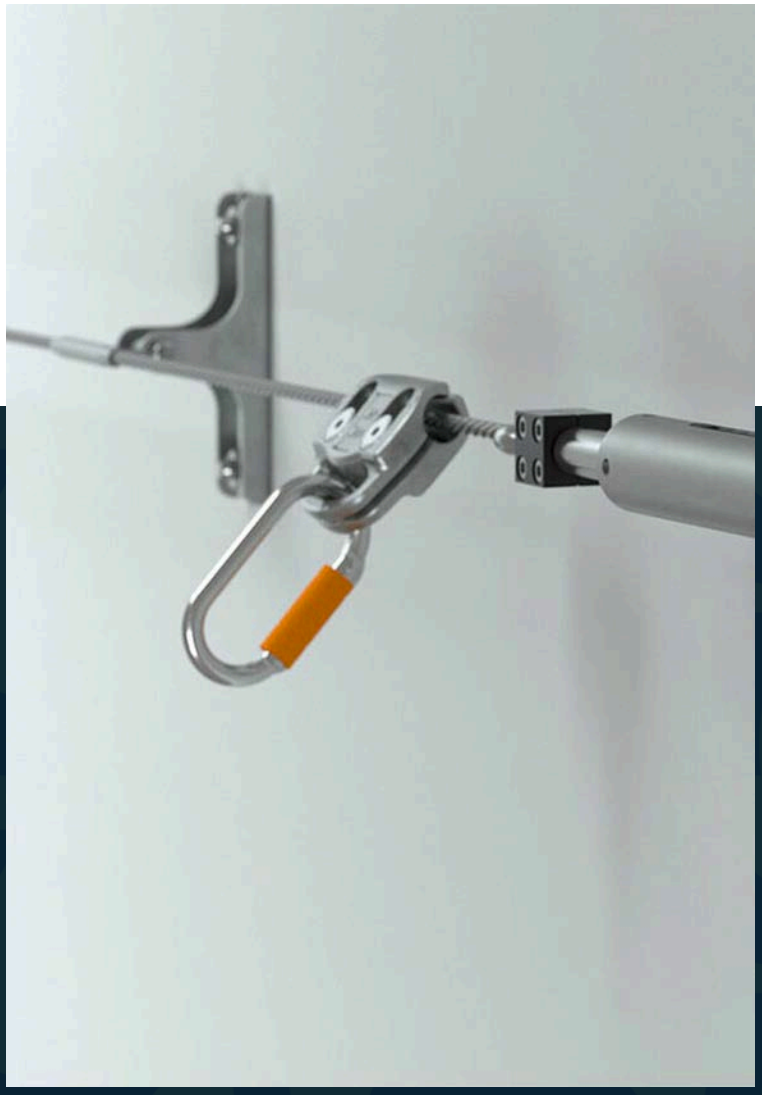
**Through the use of a stainless steel cable, the AIO lifeline system enables guided, secured movement and acts simultaneously as fall protection.**

By means of personal protective equipment consisting of harness and lanyard, plus an optional slider, users can attach themselves to the tensioned cable. Regardless whether used horizontally/vertically, for overhead activities, tasks on a facade or in industry, the lifeline system can be optimally adapted to the fall-risk area, thanks to its great versatility, and it is suitable for a wide number of substructures. Depending on the version of the system, the secured person may need to detach or reconnect. It has end fastenings which include tensioning elements and intermediate cable brackets, and it can be used as a restraint, fall arrest, and rescue system.

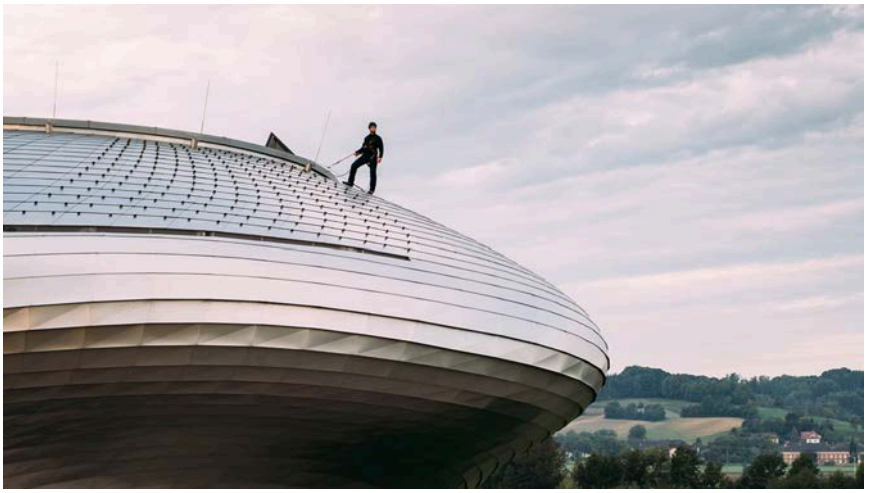
Lifeline system | Lifeline system for roof | Horizontal lifeline system | Lifeline system for facade

### BENEFITS

- Optimum adaptation to complex application areas and situations, thanks to the universally usable components
- Great flexibility through fastening to a multiplicity of substructures (concrete, steel, wood, PV substructures, etc.)
- Efficient installation through wide fastening distances and modular system components
- System is simple to inspect, because fasteners are open to view



# Lifeline system for roofs and facades



Designed as a three-in-one restraint, fall arrest and rescue system, the ALLinONE lifeline system can be installed horizontally, vertically, overhead and along facades.

## BENEFITS

- Universally usable components ensure optimum adaptation to complex situations and areas of application
- Fastening options for a multitude of substructures
- Efficient installation through wide fastening distances and modular system components
- System is simple to inspect, as fasteners are open to view

Its universal components allow quick and easy installation without faults, even in complex areas of application. High-quality materials such as stainless steel and aluminium guarantee safety of the highest level.
It can be fastened to a large number of substructures. This ability turns the AIO lifeline system into a safety system for a wide range of applications that is as versatile as it is affordable.

## Available in a great many variants

The AIO lifeline system is available in a multitude of variants: passable horizontally, horizontally passable facade, passable overhead, non-passable horizontally, horizontally non-passable facade, vertical, IND lifeline system, and KIT BOX system. The main distinguishing feature between the individual components of these variants is their design. We will gladly help you find the variant that works best for you.

### Universal lifeline system

Its modular system components make the AIO safety system suitable for universal, flexible use and allow the system to be adapted to the most complex conditions, structural shapes, and facade structures.

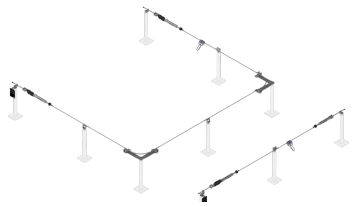
### High-quality materials

The system components are made from high-quality and high-strength steel/ aluminium.

**State of the art certification:**

EN 795:2012 TYPE C,
E CEN/TS 16415

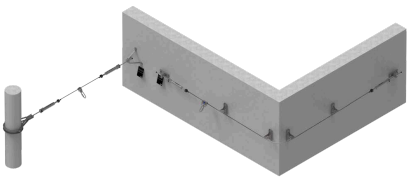
System variants



## AIO ROPE SYSTEM - PASSABLE, NON-PASSABLE

All-in-one lifeline system, passable, non-passable

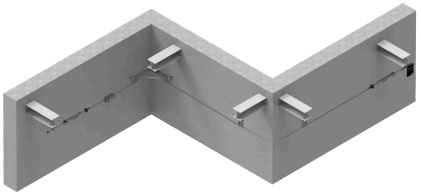
For details see subsequent pages



## AIO-LIFELINE-SYSTEM-PASSABLE-FACADE

All-in-one lifeline system, passable, for facade use

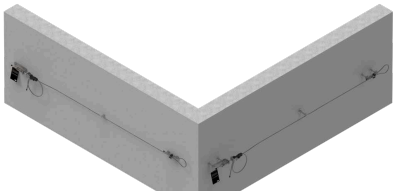
For details see subsequent pages



## AIO-PASSABLE-OVERHEAD-LIFELINE-SYSTEM

All-in-one lifeline system, passable, for overhead use

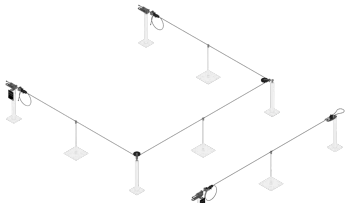
For details see subsequent pages



## AIO-LIFELINE-SYSTEM-NON-PASSABLE-FACADE

All-in-one lifeline system, non-passable, for facade use

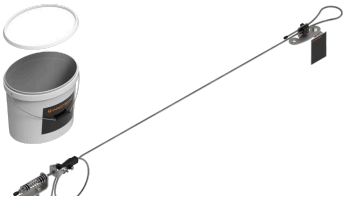
For details see subsequent pages



## AIO-LIFELINE-SYSTEM NON-PASSABLE

All-in-one lifeline system, non-passable

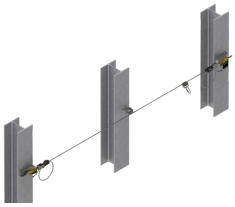
For details see subsequent pages



## KIT-BOX-SYSTEM

All-in-one lifeline system, pre-assembled

For details see subsequent pages



## IND-LIFELINE-SYSTEM

All-in-one lifeline system for industrial use

For details see subsequent pages

## VERT-LIFELINE SYSTEM

All-in-one lifeline system, vertical

For details see subsequent pages

INNOTECH

# AIO ROPE SYSTEM - PASSABLE, NON-PASSABLE

All-in-one lifeline system, passable, non-passable

**The AIO-ÜBERFAHRBAR lifeline system is used wherever a horizontal surface needs to be secured.** Whether along roofs, facades, in industry or in conjunction with photovoltaics, it provides optimum protection against fall (from a height). Complex structures of the building and the ground are no problem for the lifeline system, as it can be optimally attached to a wide range of substructures. The modular system components ensure simple and error-free installation. The travelling eyebolt / slider allows the intermediate brackets and curves to be passable, eliminating the need for cumbersome rehanging or unhanging. Integration into the building lightning protection system on the roof (test EN 62305) is possible.

## BENEFITS

- Efficient installation thanks to fastening distances of up to 15 metres.
- Durability thanks to robust construction and easy visual inspection of cable tension through the viewing window.
- Removable glider types optimally tailored to the application.
- Fall prevention (protection) system and rope access method in a single system, thanks to the combination of selected supports and abseiling points in the lifeline system.

New fixings now available for Aerocompact, Novotegra and K2.

# Technical product description

The main component of the system is our stable and proven 8 mm stainless steel cable. The cable, in combination with the various individual components, such as the passable and non-passable intermediate brackets and curve elements, the end lock and the slider tailored to the system for various applications, together form a coherent overall system. The cable system can be attached to a wide range of substructures.

## TECHNICAL BENEFITS

**Reduction in installation effort**
Depending on the substructure, the fastening distance can be up to 15 m. From an economic point of view, the large fastening distances have a positive effect on the entire installation process.

**Easy to check operational readiness**
The freely visible rope fastening allows for accurate assessment of the rope clamping and thus easy checking of the operational readiness of the rope system (end lock with viewing window).

**Consistent rope tension**
The adjustable constant cable pre-tension is located at each end of the rope system and ensures consistent rope tension, even in the event of temperature fluctuations.

# Components

### AIO-TYP-21
Rating plate TYP-21 for lifeline systems

**Material:** stainless steel (AISI 316), plastic
for identifying a self-supporting horizontal lifeline system
Various fastening options!

### SOPV-AERO-TYP-AIO
Rating plate for AIO on AEROCOMPACT

**Dimensions:** 82x 150 mm
**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal cable system on AEROCOMPACT

### SOPV-K2-TYP-AIO
Rating plate for AIO on K2 SYSTEMS

**Dimensions:** 82x 150 mm
**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal cable system on K2 SYSTEMS

### SOPV-NOVO-TYP-AIO
Rating plate for AIO on NOVOTEGRA flat roof 2 base rail

**Dimensions:** 82x 150 mm
**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal cable system on NOVOTEGRA flat roof 2 base rail

### AIO-ENDS-10
End lock set ENDS-10 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium (anodised)
Complete set for one cable span, constant spring pre-tension and indicator clamp!

### AIO-SEIL-30
Stainless steel cable SEIL-30 for lifeline syste

**Dimensions:** Ø 8 mm (7 x 7)
**Breaking load:** 37 kN
**Material:** stainless steel (AISI 316)
tested for INNOTECH lifeline systems

### AIO-EB-10
End lock fastening EB-10 for rope systems

**Substrate:** AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Connection:** M16 thread
**Material:** Stainless steel V2A (AISI 304)
for tensioning the rope system with an end lock (AIO-ENDS-10)

### AIO-EB-15
End lock fastening EB-15 for lifeline systems

**Mountable on:** AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
for fastening the lifeline system with an end lock (AIO-ENDS-10)

### AIO-SZH-10
Intermediate bracket SZH-10 for lifeline systems

**Mountable on:** STA, FALZ, SAND, VARIO, SYST, etc.
**Connection:** thread M16
**Function range:** 220°
**Material:** stainless steel (AISI 304)
For use on both sides without detaching the slider!

### AIO-EDLE-11
Corner pass-through element EDLE-11 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.**Pass-over capability:** inside corners **Connection:** thread M16 **Material:** stainless steel (AISI 304)
for setting up a 135° corner set

### AIO-EDLE-16
Extension tube EDLE-16 for lifeline systems

**Pass-over capability:** special corners
**Length:**1000 / 1500 / 3000 mm
**Curve corner:** 0°
**Material:** stainless steel (AISI 316)
Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/ -13/ -17/ -18!

### AIO-EDLE-16-90

# Components

## AIO-EDLE-17

Corner pass-through element EDLE-17 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Engagement positions:** 0°, 45°, 90°, 135°, 180°
**Material:** stainless steel (AISI 304)
Only for usage with 2 pcs. of AIO-EDLE-16 and AIO-EDLE-18!

## AIO-EDLE-18

Corner pass-through element EDLE-18 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Engagement positions:** 0°, 45°, 90°, 135°, 180°
**Material:** stainless steel (AISI 304)
Only for usage with 1 pce. of AIO-EDLE-16!

## AIO-EDLE-19

Corner pass-through element EDLE-19 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Engagement positions:** 0° / 45° / 90° / 135° / 180°
**Material:** stainless steel (AISI 304) Angular displacement possible from 0° / 180° up to 135°!
Suitable bending device or flaring tool required!

## AIO-EDLE-50

Curve EDLE-50 for lifeline systems

**Mountable on:** STA, FALZ, SAND, VARIO, SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
for setting up a 90° corner set
Variably adjustable cable angle thanks to bent base plate!

## AIO-EDLE-50-I

Inside curve EDLE-50 for lifeline systems

**Mountable on:** STA, FALZ, SAND, VARIO, SYST, etc.
**Pass-over capability:** inside corner formation
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
for setting up a 90° corner set
Variably adjustable cable angle thanks to bent base plate!

## AIO-EDLE-50-O

Outside curve EDLE-50 for lifeline systems

**Mountable on:** STA, FALZ, SAND, VARIO, SYST, etc.
**Pass-over capability:** outside corner formation
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
for setting up a 90° corner set
Variably adjustable cable angle thanks to bent base plate!

## AIO-EDLE-50-ROHRBOGEN

Pipe bend EDLE-50 for lifeline systems

**Application:** AIO-EDLE-50
**Material:** stainless steel (AISI 304)
for setting up a 80°, 105° or 120° corner set
Pass-over capability: only outside!

# Accessory items

## AIO-GLEIT-10-A4

Slider GLEIT-10 for lifeline systems

**Material:** stainless steel (AISI 316)
can be attached and detached at any point on the cable in the horizontal lifeline system
free to move over all pass-through elements (intermediate cable brackets and curves)

## AIO-GLEIT-13-A4

Slider GLEIT-13 for lifeline systems

**Material:** stainless steel (AISI 316)
free to move over all pass-through elements (intermediate cable brackets and curves)

## AIO-GLEIT-20-A4

Slider GLEIT-20 for lifeline systems

**Material:** stainless steel (AISI 316)
can be attached and detached at any point on the cable in the horizontal lifeline system
free to move over all pass-through elements (intermediate cable brackets and curves)

## SHOCK-10

Shock absorber SHOCK-10 for lifeline systems

**Material:** aluminium anodised
reduces the forces in the end points of an AIO lifeline system
Enhancement of the cable deflection up to approximately 50 cm!

## SHOCK-11

Shock absorber SHOCK-11 for lifeline systems

**Material:** stainless steel (AISI 316)
reduces the forces in the end points of an AIO lifeline system
Enhancement of the cable deflection up to approximately 1000 mm!

## SOPV-AERO-AIO-SET-10

Fastening set for end lock set on AEROCOMPACT SN 2 / SN2+

**Length:** 1995 mm
**Material:** stainless steel, steel
For module widths of 1448-1779 mm.

## SOPV-AERO-AIO-SET-11

Fastening set for end lock set on AEROCOMPACT SN 2 / SN2+

**Length:** 2365 mm
**Material:** stainless steel, steel
For module widths of 1448-1779 mm.

## SOPV-AERO-AIO-SET-20

Fastening set for cable intermediate bracket on AEROCOMPACT SN 2 / SN2+

**Material:** stainless steel, steel

## SOPV-AERO-AIO-SET-30

Fastening set for EDLE / SZH / EAP on AEROCOMPACT SN 2 / SN2+

**Length:** 1995 mm
**Material:** stainless steel, steel
For module widths of 1448-1779 mm.

## SOPV-AERO-AIO-SET-31

Fastening set for EDLE / SZH / EAP on AEROCOMPACT SN 2 / SN2+

**Length:** 2365 mm
**Material:** stainless steel, steel
For module widths of 1448-1779 mm.

## SOPV-AERO-AIO-SET-40

Extension for base rail on AEROCOMPACT SN 2 / SN2+

**Length:** 1755 mm
**Material:** stainless steel, steel

## SOPV-AERO-AIO-SET-41

Extension for base rail on AEROCOMPACT SN 2 / SN2+

**Length:** 2195 mm
**Material:** stainless steel, steel

# Accessory items

## SOPV-K2-AIO-SET-11

Fastening set for end lock set on K2 SYSTEMS BasicRail

**Length:** 2365mm
**Material:** aluminum, stainless steel
For module widths of 1780-2050m

## SOPV-K2-AIO-SET-20

Fastening set for cable intermediate bracket on K2 SYSTEMS BasicRail

**Material:** aluminum, stainless steel

## SOPV-K2-AIO-SET-30

Fastening set for EDLE / SZH / EAP on K2 SYSTEMS BasicRail

**Length:** 1995 mm
**Material:** aluminum, stainless steel
For module widths of 1448-1779mm.

## SOPV-K2-AIO-SET-31

Fastening set for EDLE / SZH / EAP on K2 SYSTEMS BasicRail

**Length:** 2365 mm
**Material:** aluminum, stainless steel
For module widths of 1780-2050 mm.

## SOPV-K2-AIO-SET-40

Extension set on K2 SYSTEMS BasicRail

**Length:** 1995 mm
**Material:** aluminum, stainless steel
**Extension set for:**
SOPV-K2-AIO-SET-10
SOPV-K2-AIO-SET-11
SOPV-K2-AIO-SET-30
SOPV-K2-AIO-SET-31
SOPV-K2-TAURUS-SET-10
SOPV-K2-TAURUS-SET-11
SOPV-K2-TAURUS-SET-30
SOPV-K2-TAURUS-SET-31

## SOPV-K2-AIO-SET-10

Fastening set for end lock set onK2 SYSTEMS BasicRail

**Length:** 1995 mm
**Material:** aluminum, stainless steel
For module widths of 1448-1779mm.

## SOPV-NOVO-AIO-SET-20

Fastening set for cable intermediate bracket on NOVOTEGRA flat roof 2 base rail

**Material:** aluminum, stainless steel

## SOPV-NOVO-AIO-SET-10

Fastening set for end lock set on NOVOTEGRA flat roof 2 base rail

**Material:** aluminum, stainless steel

## SOPV-K2-AIO-SET-130

Fastening set for EDLE / SZH / EAP on K2 SYSTEMS BasicRail

Length: 1,995 mm
Material: steel, stainless steel
For module lengths from 1,448 to 1,779 mm.

## SOPV-K2-AIO-SET-120

Fastening set for intermediate bracket on K2 SYSTEMS BasicRail

**Material:** steel, stainless steel

System variants

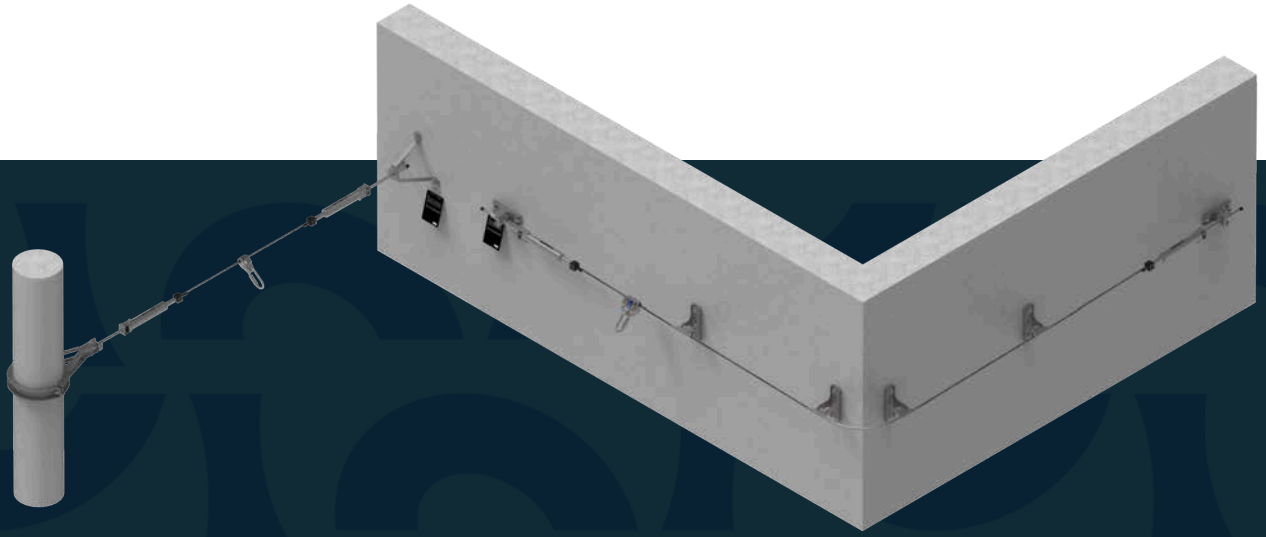
# AIO-LIFELINE-SYSTEM-PASSABLE-FACADE

All-in-one lifeline system, passable, for facade use

**The AIO-PASSABLE-FACADE lifeline system is a fall protection system which is deployed on facades, walls, and parapets.** The protection of complex facade structures presents no problem to the lifeline system. Thanks to the fasteners specially developed for the facade application, such as intermediate bracket, end lock fastening, corner pass-through element, and much more, there is no longer anything to prevent installation along a facade. The slider makes it possible to pass over intermediate brackets and curves, thus completely avoiding inconvenient attachment and detachment by the protected person.

## BENEFITS

- Simple installation using the fasteners developed for the facade area.
- Efficient installation through wide fastening distances up to 7,5 m.
- Long working life thanks to robust construction and easy visual checking of cable tension through the viewing window.
- Removable slider types optimally matched to the use case.



Currently no updates for this product

# Technical product description

The system s principle component is our stable and proven 8 mm stainless steel cable. The cable, together with the various individual components, such as passable intermediate brackets and curve elements, the end lock, and a slider for different uses matched to the system, combine to create an integrated, harmonised system. The lifeline system can above all be attached to facades, walls, and parapets.

## TECHNICAL BENEFITS

**Reduction of installation effort**
Depending on the substructure, the fastening distance can be up to 7,5 m. From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

**Simple checking of readiness for use**
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

**Consistent cable tension**
The adjustable constant cable pre-tensioner is located at the end of the lifeline system. Amongst other things it ensures consistent cable tension in the event of temperature deviations.

Components and associated equipment

# Components

### AIO-TYP-20

Rating plate TYP-20 for lifeline systems

**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal lifeline system
Various fastening options!

### AIO-TYP-20-DIBt

Rating plate TYP-20-DIBt for lifeline systems

**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal lifeline system according to DIBt guidelines
Various fastening options!

### AIO-ENDS-10

End lock set ENDS-10 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium (anodised)
Complete set for one cable span, constant spring pre-tension and indicator clamp!

### AIO-SEIL-30

Stainless steel cable SEIL-30 for lifeline syste

**Dimensions:** Ø 8 mm (7 x 7)
**Breaking load:** 37 kN
**Material:** stainless steel (AISI 316)
tested for INNOTECH lifeline systems

### AIO-EB-11

End lock fastening EB-11 for façade

**Mountable on:** facade
**Connection:** fastening boreholes Ø 17 mm
**Through boreholes:** 134 mm
**Material:** stainless steel (AISI 304)
for fastening the lifeline system with an end lock (AIO-ENDS-10)

### AIO-EB-12

End lock fastening EB-12 for facades

**Surface:** concrete wall, façade
**Connection:** Ø 13 mm
**Material:** stainless steel V2A (AISI 304)
for tensioning the rope safety system with an end lock (AIO-ENDS-10) at 90° to the wall
Heavy-duty anchors (BEF-104-A4) must not be used on weathered facades or thermal insulation! (Use 3 adhesive anchors M12)

### AIO-SZH-11

Intermediate bracket SZH-11 for façade

**Mountable on:** facades
**Connection:** fastening boreholes Ø 17 mm
**Through boreholes:** 134 mm
**Function range:** 220°
**Material:** stainless steel (AISI 304)

### AIO-EDLE-12

Curve EDLE-12 for façade lifeline systems

**Mountable on:** facade
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** fastening boreholes Ø 17 mm
**Through boreholes:** 134 mm
**Engagement positions:** 0°, 45°, 90°, 135°, 180°
**Material:** stainless steel (AISI 304)
for setting up a 90° corner set

### AIO-EDLE-13

Curve EDLE-13 for façade lifeline systems

**Mountable on:** steel construction **Pass-over capability:** inside and outside corners or overhead systems
**Connection:** fastening boreholes Ø 17 mm
**Engagement positions:** 0°, 45°, 90°, 135°, 180°
**Material:** stainless steel (AISI 304)
for setting up a 90° corner set
Restricted use as outside corners!

### AIO-EDLE-16

Extension tube EDLE-16 for lifeline systems

**Pass-over capability:** special corners
**Length:**1000 / 1500 / 3000 mm
**Curve corner:** 0°
**Material:** stainless steel (AISI 316)
Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/ -13/ -17/ -18!

### AIO-EDLE-16-90

# Accessory items

## AIO-GLEIT-10-A4

Slider GLEIT-10 for lifeline systems

**Material:** stainless steel (AISI 316)
can be attached and detached at any point on the cable in the horizontal lifeline system
free to move over all pass-through elements (intermediate cable brackets and curves)

## AIO-GLEIT-13-A4

Slider GLEIT-13 for lifeline systems

**Material:** stainless steel (AISI 316)
free to move over all pass-through elements (intermediate cable brackets and curves)

## AIO-GLEIT-20-A4

Slider GLEIT-20 for lifeline systems

**Material:** stainless steel (AISI 316)
can be attached and detached at any point on the cable in the horizontal lifeline system
free to move over all pass-through elements (intermediate cable brackets and curves)

## SHOCK-10

Shock absorber SHOCK-10 for lifeline systems

**Material:** aluminium anodised
reduces the forces in the end points of an AIO lifeline system
Enhancement of the cable deflection up to approximately 50 cm!

## SHOCK-11

Shock absorber SHOCK-11 for lifeline systems

**Material:** stainless steel (AISI 316)
reduces the forces in the end points of an AIO lifeline system
Enhancement of the cable deflection up to approximately 1000 mm!

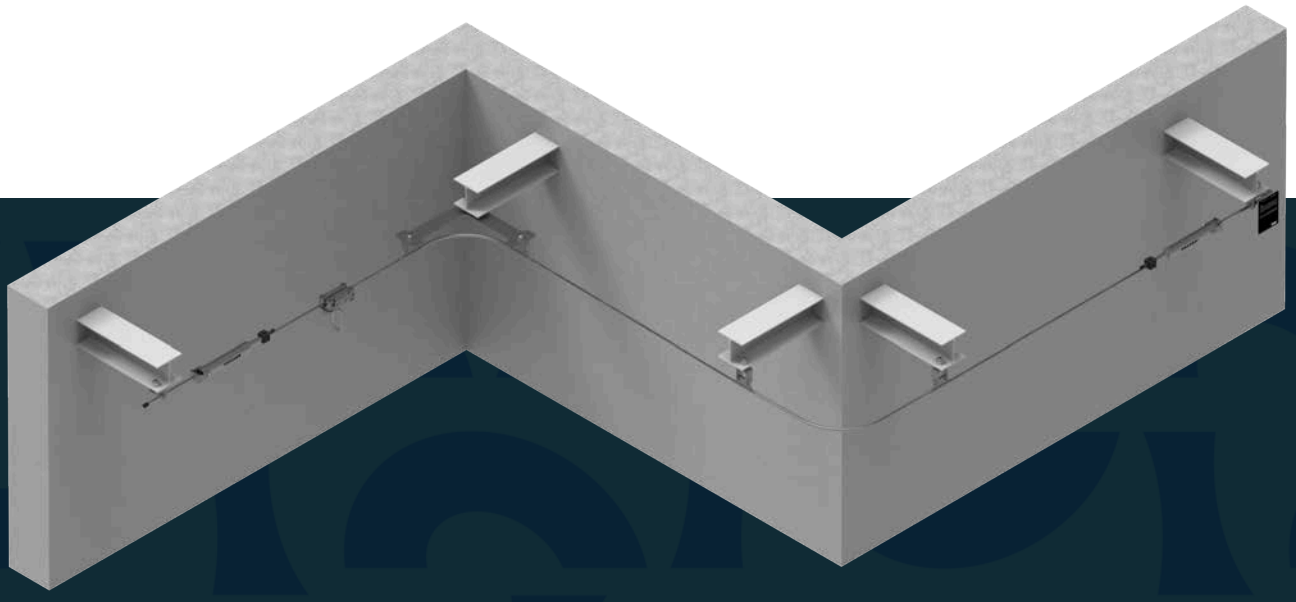
# AIO-PASSABLE-OVERHEAD-LIFELINE-SYSTEM

All-in-one lifeline system, passable, for overhead use

**The AIO PASSABLE OVERHEAD LIFELINE SYSTEM is deployed wherever a horizontal overhead must be protected.** Regardless whether along a maintenance walkway or in the area of machine safeguarding, the lifeline system can be relied upon to protect against falls. It also adapts to complex building and facade structures, and at the same time is suitable for fastening to a wide range of substructures. The modular system components enable simple and defect-free installation. The slider types, specially developed for overhead use, ensure optimum travel over curves and intermediate brackets overhead.

## BENEFITS

- Efficient installation through wide fastening distances up to 7,5 m.
- Long working life thanks to robust construction and simplicity of visual checking of cable tension through the viewing window.
- System has optimum freerunning characteristics thanks to the slider types specially developed for overhead use.
- Additional safety thanks to compatibility with the appropriate fall arrest device.



The new passable AIO-GLEIT-22 slider is available from the end of May.Not only does it combine the functions of the existing sliders (curve-compatible and suitable for straight runs), but it can also be mounted and removed at any position in the system. The optimised roller geometry ensures free-running movement in the system. It is delivered in a practical carrying bag.

# Technical product description

The system s principle component is our stable and proven 8 mm stainless steel cable. The cable, together with thevarious individual components, such as passable intermediate brackets and curve elements, the end lock, and a slidermatched to overhead use, combine to create an integrated, harmonised system. The lifeline system can be attached to a large number of substructures.

## TECHNICAL BENEFITS

**Reduction of installation effort**
Depending on the substructure, the fastening distance can be up to 7.5 m. From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

**Simple checking of readiness for use**
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

**Consistent cable tension**
The adjustable constant cable pre-tensioner is located at the end of the lifeline system. Amongst other things it ensures consistent cable tension in the event of temperature deviations.

# Components

### AIO-TYP-20
Rating plate TYP-20 for lifeline systems

**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal lifeline system
Various fastening options!

### AIO-TYP-20-DIBt
Rating plate TYP-20-DIBt for lifeline systems

**Material:** stainless steel (AISI 316), plastic
for identifying a horizontal lifeline system according to DIBt guidelines
Various fastening options!

### AIO-ENDS-10
End lock set ENDS-10 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium (anodised)
Complete set for one cable span, constant spring pre-tension and indicator clamp!

### AIO-SEIL-30
Stainless steel cable SEIL-30 for lifeline syste

**Dimensions:** Ø 8 mm (7 x 7)
**Breaking load:** 37 kN
**Material:** stainless steel (AISI 316)
tested for INNOTECH lifeline systems

### AIO-EB-10
End lock fastening EB-10 for rope systems

**Substrate:** AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Connection:** M16 thread
**Material:** Stainless steel V2A (AISI 304)
for tensioning the rope system with an end lock (AIO-ENDS-10)

### AIO-EB-12
End lock fastening EB-12 for facades

**Surface:** concrete wall, façade
**Connection:** Ø 13 mm
**Material:** stainless steel V2A (AISI 304)
for tensioning the rope safety system with an end lock (AIO-ENDS-10) at 90° to the wall
Heavy-duty anchors (BEF-104-A4) must not be used on weathered facades or thermal insulation! (Use 3 adhesive anchors M12)

### AIO-EB-15
End lock fastening EB-15 for lifeline systems

**Mountable on:** AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
for fastening the lifeline system with an end lock (AIO-ENDS-10)

### AIO-SZH-10
Intermediate bracket SZH-10 for lifeline systems

**Mountable on:** STA, FALZ, SAND, VARIO, SYST, etc.
**Connection:** thread M16
**Function range:** 220°
**Material:** stainless steel (AISI 304)
For use on both sides without detaching the slider!

### AIO-EDLE-11
Corner pass-through element EDLE-11 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.**Pass-over capability:** inside corners **Connection:** thread M16 **Material:** stainless steel (AISI 304)
for setting up a 135° corner set

### AIO-EDLE-16
Extension tube EDLE-16 for lifeline systems

**Pass-over capability:** special corners
**Length:**1000 / 1500 / 3000 mm
**Curve corner:** 0°
**Material:** stainless steel (AISI 316)
Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/ -13/ -17/ -18!

### AIO-EDLE-16-90

### AIO-EDLE-17
Corner pass-through element EDLE-17 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Engagement positions:** 0°, 45°, 90°, 135°, 180°
**Material:** stainless steel (AISI 304)
Only for usage with 2 pcs. of AIO-EDLE-16 and AIO-EDLE-18!

# Components

### AIO-EDLE-18

Corner pass-through element EDLE-18 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Engagement positions:** 0°, 45°, 90°, 135°, 180°
**Material:** stainless steel (AISI 304)
Only for usage with 1 pce. of AIO-EDLE-16!

### AIO-EDLE-19

Corner pass-through element EDLE-19 for lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Engagement positions:** 0° / 45° / 90° / 135° / 180°
**Material:** stainless steel (AISI 304) Angular displacement possible from 0° / 180° up to 135°!
Suitable bending device or flaring tool required!

### AIO-EDLE-50

Curve EDLE-50 for lifeline systems

**Mountable on:** STA, FALZ, SAND, VARIO, SYST, etc.
**Pass-over capability:** inside or outside corners and overhead systems
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
for setting up a 90° corner set
Variably adjustable cable angle thanks to bent base plate!

# Accessory items

### AIO-GLEIT-22

All-In-One slider detachable curve compatible overhead lifeline systems

**Material:** aluminium, stainless steel V2A (AISI 304), stainless steel V4A (AISI 304)

System variants

# AIO-LIFELINE-SYSTEM-NON-PASSABLE-FACADE

All-in-one lifeline system, non-passable, for facade use

**The AIO LIFELINE SYSTEM NON-PASSABLE, FACADE is a fall protection system which is used along facades, walls, and parapets.** The protection of complex facade structures represents no problem for the system. The system components, specially developed for use on facades, ensure simple and defect-free installation on a wide range of substructures. Because this is a non-passable lifeline system, it consists of individual components which require the person using the system to attach and detach.

## BENEFITS

- Simple installation using the fasteners developed for the facade area.
- Efficient installation through wide fastening distances up to 7,5 m.
- Long working life thanks to robust construction and easy visual checking of cable tension through the viewing window.
- Simple system without sliders. However, a Y-lanyard is required for the use and safety of the person using the system.

Currently no updates for this product

# Technical product description

The system s principle component is our stable and proven 8 mm stainless steel cable. The cable, together with the various individual components, such as the non-passable intermediate brackets and curve elements, and the end lifeline system, a Y-lanyard is required.
This connects the person using the harness to the lifeline system.

## TECHNICAL BENEFITS

**Reduction of installation effort**
Depending on the substructure, the fastening distance can be up to 7,5 m. From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

**Simple checking of readiness for use**
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

Components and associated equipment

# Components

### AIO-TYP-50

Rating plate TYP-50 for lifeline systems

**Material:** stainless steel V4A (AISI 316), plastic for identifying a horizontal lifeline system in combination with the end lock AIO-ENDS-50/51
Various fastening options!

### AIO-TYP-52-DIBt

### AIO-ENDS-50

End lock ENDS-50 A2 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium (anodised)
This end lock is for a non passable cable span with integrated shock force absorption!
For a cable span with a corner set, a second AIO-ENDS-50 is required, for a straight cable span an AIO-ENDS-51 is required!

### AIO-ENDS-51

End lock ENDS-51 A2 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium (anodised)
This end lock is for a non-passable cable span with integrated shock force absorption!
To be used only in combination with AIO-ENDS-50, for a straight cable span!

### AIO-SEIL-30

Stainless steel cable SEIL-30 for lifeline syste

**Dimensions:** Ø 8 mm (7 x 7)
**Breaking load:** 37 kN
**Material:** stainless steel (AISI 316)
tested for INNOTECH lifeline systems

# Accessory items

### PSA-EQUIP-17

Y-lanyard PSA-EQUIP-17

**Material:** PA-tubular tape
**Length:** 2 m
strong Y-lanyard as fall protection system

System variants

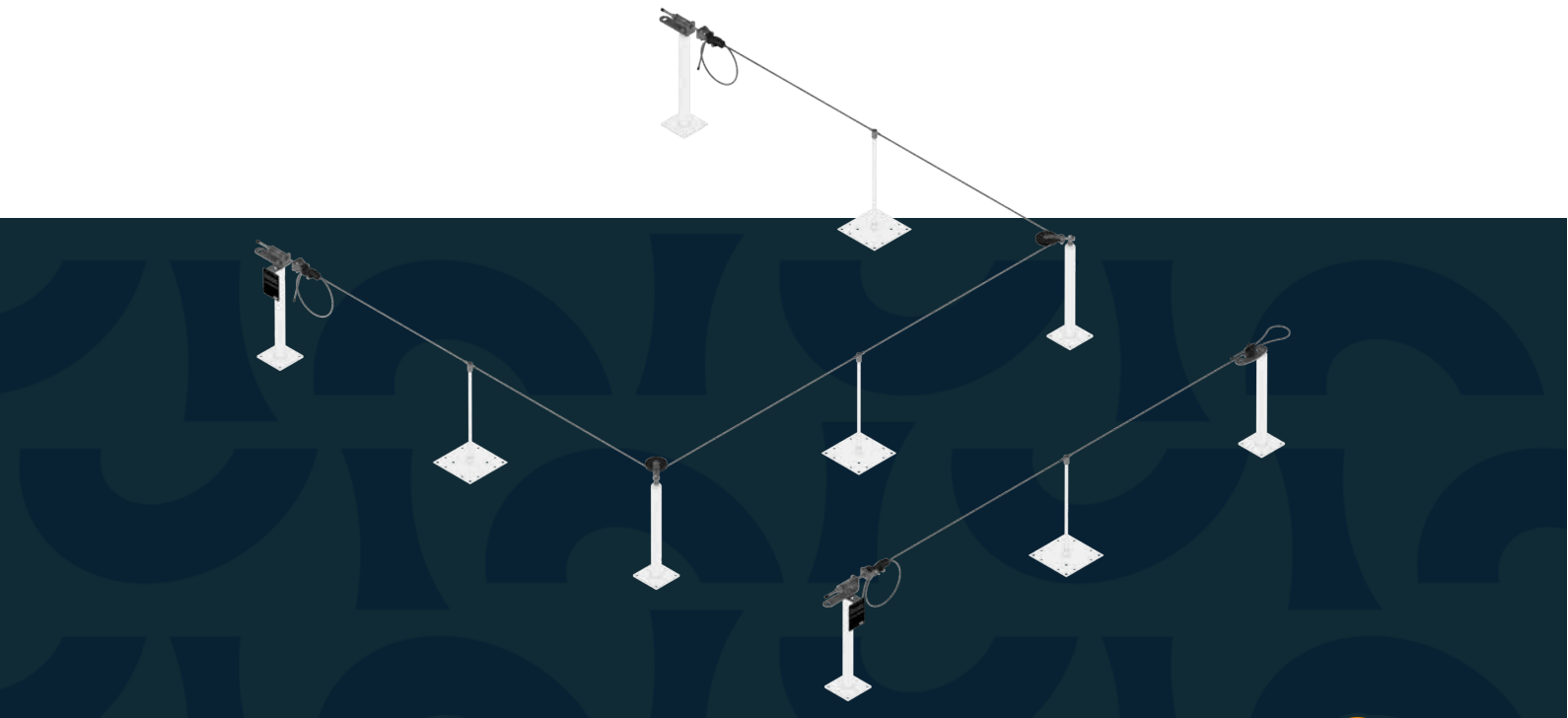
# AIO-LIFELINE-SYSTEM NON-PASSABLE

All-in-one lifeline system, non-passable

**The AIO LIFELINE SYSTEM NON-PASSABLE i is used wherever a horizontal surface must be protected.** Regardless whether along roofs, facades, or in industry, it provides optimum protection against falls. Not only does it adapt to complex building structures, it can also be attached optimally to a wide range of substructures. The modular, flexible system components ensure easy, defect-free installation. Because the lifeline system consists of non-passable individual components, attachment and detachment to/from the system is necessary.

## BENEFITS

- Efficient installation through wide fastening distances up to 15 m.



Currently no updates for this product

# Technical product description

The system s principle component is our stable and proven 8 mm stainless steel cable. The cable, together with the various individual components, such as the non-passable intermediate brackets and curve elements, and the end lock with integrated shock force absorption, combine to create a harmonised system. For secured movement in the lifeline system, a Y-lanyard is required.
This connects the person using the harness to the lifeline system.

## TECHNICAL BENEFITS

**Reduction of installation effort**
Depending on the substructure, the fastening distance can be up to 15 m. From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

**Simple checking of readiness for use**
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

**Variable corner formation**
For the AIO LIFELINE SYSTEM, NON PASSABLE, the AIO-EDLE-15 curve element allows a variable, non-passable corner formation, based on the angle.

# Components

### AIO-TYP-50

Rating plate TYP-50 for lifeline systems

**Material:** stainless steel V4A (AISI 316), plastic
for identifying a horizontal lifeline system in
combination with the end lock AIO-ENDS-50/51
Various fastening options!

### AIO-TYP-51

Rating plate TYP-51 for lifeline systems

**Material:** stainless steel (AISI 316), plastic
for identifying a self-supporting horizontal lifeline
system in combination with the end lock AIO-ENDS-
50/51
Various fastening options!

### AIO-TYP-52-DIBt

### AIO-ENDS-50

End lock ENDS-50 A2 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium
(anodised)
This end lock is for a non passable cable span with
integrated shock force absorption!
For a cable span with a corner set, a second AIO-ENDS-
50 is required, for a straight cable span an
AIO-ENDS-51 is required!

### AIO-ENDS-51

End lock ENDS-51 A2 for lifeline systems

**Material:** stainless steel (AISI 304), aluminium
(anodised)
This end lock is for a non-passable cable span with
integrated shock force absorption!
To be used only in combination with AIO-ENDS-50, for a
straight cable span!

### AIO-SEIL-30

Stainless steel cable SEIL-30 for lifeline syste

**Dimensions:** Ø 8 mm (7 x 7)
**Breaking load:** 37 kN
**Material:** stainless steel (AISI 316)
tested for INNOTECH lifeline systems

### AIO-SZH-13

Intermediate bracket SZH-13 for lifeline systems

**Mountable on:** STA, BKS, SAND, VARIO, SYST, QUAD,
etc.
**Connection:** thread M16
**Material:** stainless steel V2A (AISI 304)
Not passable with the slider.

### AIO-EDLE-15

Curve EDLE-15 for lifeline system

**Mountable on:** AIO-STA, AIO-FALZ, AIO-SAND, AIO-
VARIO, AIO-SYST, etc.
**Application:** inside corners
**Connection:** thread M16
**Material:** stainless steel (AISI 304), plastic
for setting up a variable corner set

# Accessory items

**PSA-EQUIP-17**

Y-lanyard PSA-EQUIP-17

**Material:** PA-tubular tape
**Length:** 2 m
strong Y-lanyard as fall protection system

# KIT-BOX-SYSTEM

All-in-one lifeline system, pre-assembled

**The KIT BOX SYSTEM is ideally suited for construction sites and building projects.** It can be used wherever it is necessary to protect horizontal movement.It is a non- passable system with a maximum total system length of 30 m. It provides reliable fall protection, regardless whether along roofs, in industry, on facades, for building projects, or as a permanent solution. The pre-assembled system is delivered in handy packaging, and merely requires attachment to the respective substructure. This ensures rapid, simple, and flexible installation.

## BENEFITS

- User-friendliness and time-saving, thanks to the pre-assembled horizontal lifeline system.
- Easy transport of all system-relevant components, thanks to the practical packaging.
- Reduction of forces on the endpoints in the event of a fall, thanks to the special shock absorber and constant cable pre-tension.
- Simple and flexible installation with no training requirement.

Available in two system lengths!

# Technical product description

The system s principle component is our stable and proven 8 mm stainless steel cable. The cable, together with the various individual components, such as the non-passable intermediate elements and the end lock with integrated shock force absorption, combine to create a harmonised system. For secured movement in the lifeline system, a Y-lanyard is required. This connects the person using the harness to the lifeline.

## TECHNICAL BENEFITS

**Reduction of installation effort**
Depending on the substructure, the separation of the fastenings can be up to 15 m (maximum total system length 30 m). From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

**Simple checking of readiness for use**
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

**Reduction of forces in the event of a fall**
In the event of a fall, the special shock absorber and the constant cable pre- tension reduce the forces arising on the endpoints of the lifeline system.

Components and associated equipment

# Components

## KIT-BOX

Pre-assembled horizontal lifeline system KIT-BOX

**Length:** 15 / 30 m
**Material:** stainless steel (AISI 304), aluminium (anodised), plastic
**complete kit:**
1 end lock
1 rating plate
cable of stainless steel
Quick assembly system - all components of the cable system are partly pre-assembled and summarized in a bucket!
KIT-BOX-30 incl. 1 LIFELINE-KIT-SZH-10 (intermediate bracket)!

## LIFELINE-KIT-SZH-10

Intermediate cable bracket, horizontal lifeline

**Mountable on:** AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
**Connection:** thread M16
**Material:** stainless steel (AISI 304)
Suitable for installation on posts can only be passed over with steel carabiner!

System variants

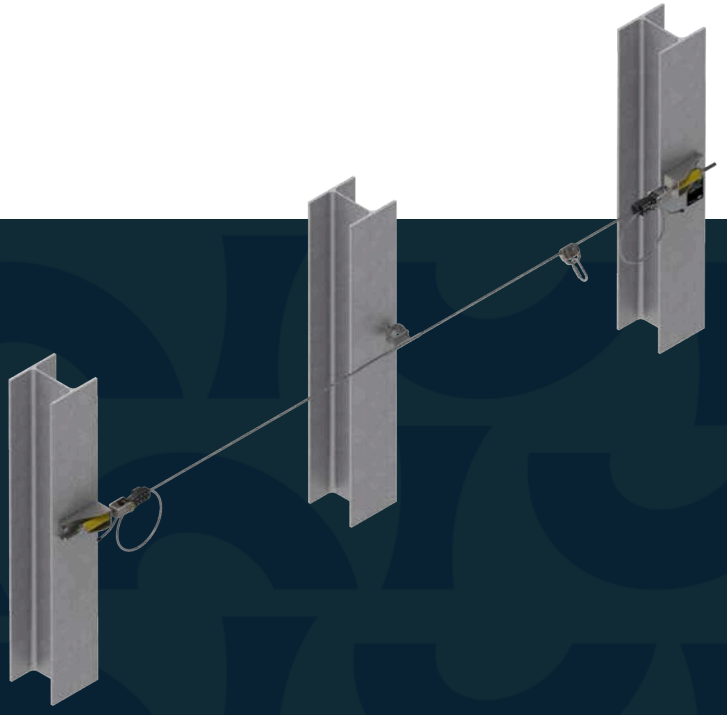
# IND-LIFELINE-SYSTEM

All-in-one lifeline system for industrial use

**The IND LIFELINE SYSTEM was specially developed for use in industry, and it can be used wherever a straight horizontal run up to an inclination of 10 % has to be protected.** It can be attached temporarily or permanently to various steel constructions. To be able to cover the greater separation distances required for industrial applications, it is equipped with a particularly robust cable. High cable preload and the compression of the intermediate bracket make reduced cable deflection possible, and therefore provide ideal protection for tasks at height in industry.

## BENEFITS

- Broad range of applications focussed on industrial use, because it can be used attached either temporarily or permanently.
- Robust system, thanks to a cable diameter of 10 mm for increased cable pre- tension and minimum cable sag.
- Financially attractive thanks to max. separation distances of 7,5 m (temporary) or 15/30 m (permanent).
- Low cable deflection in the event of a fall, thanks to high cable pre-tension.



Currently no updates for this product

# Technical product description

The system s principle component is our enormously stable 10 mm stainless steel cable.
The cable, together with the various individual components, such as passable intermediate brackets and curve elements, the end lock with integrated shock force absorption, and the slider matched to the system, combine to create an integrated, harmonised system. The lifeline system can be attached to various steel constructions.

## TECHNICAL BENEFITS

**Reduction of installation effort**
Depending on the overall system length, the separation of the fastenings can be up to 30 m. From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

**Simple checking of readiness for use**
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

**Consistent cable tension**
Despite a cable length of 30 m, the 10 mm cable and the adjustable constant cable pre-tensioner located at the end of the lifeline system ensure consistent cable tension in the event of fluctuating temperatures. This means that there is almost no cable sag.

Components and associated equipment

# Components

## IND TYPE 20

Rating plate TYPE-20 for industrial rope systems

**Material:** stainless steel V4A (AISI 316), plastic for marking a horizontal rope safety system

## IND-ENDS-10

End lock set ENDS-10 for Industry lifeline syste

**Material:** stainless steel V2A (AISI 304), aluminium (anodised)
Complete set for one cable span, constant spring pre-tension

## IND-SEIL-40

Stainless steel cable SEIL-40 for lifeline syste

**Dimensions**: Ø 10 mm (7 x 19)
**Breaking load:** 57 kN
**Material:** stainless steel V4A (AISI 316)
tested for INNOTECH lifeline systems

## IND-EB-10

End lock fastening IND-EB-10 for rope systems

## IND-EB-20

End lock fastening IND-EB-20 for rope systems

## IND-EB-30

End lock fastening IND-EB-30 for rope systems

## IND-EB-40

End lock fastening EB-40 for lifeline systems

**Mountable on:** steel construction
**Connection:** thread M16
**Material:** stainless steel V2A (AISI 304)
for fastening the lifeline system (Ø 10mm) with an end lock (IND-ENDS-10)

## IND-SZH-10

Intermediate bracket SZH-10 for lifeline system

**Mountable on:** steel construction
**Connection:** thread M16
**Function range:** adjustment range variable
**Material:** stainless steel V2A (AISI 304)

# Accessory items

## IND-GLEIT-10-A4

Slider GLEIT-10 for Industry lifeline systems

**Material:** stainless steel V4A (AISI 316)
can be attached and detached at any point on the cable in the horizontal lifeline system
free to move over all pass-through elements (intermediate cable brackets and curves)

## IND-GLEIT-22

All-In-One slider detachable curve compatible overhead lifeline systems

**Material:** aluminium, stainless steel V2A (AISI 304), stainless steel V4A (AISI 304)

# VERT-LIFELINE SYSTEM

All-in-one lifeline system, vertical

**The VERT LIFELINE SYSTEM is used wherever vertical ascents or descents require protection.** Regardless whether ladder access, shelving/mast systems (with or without ladder) or steel constructions with access systems, it provides continuous fall protection. With the correct slider, deviations of up to 15° from the vertical can be protected easily. It also provides unimpeded sliding along the passable system.To keep fall strain to a minimum, our VERT LIFELINE SYSTEM is equipped with the most up-to-date preload elements and shock absorbers. The two different attachment options significantly simplify the system's installation, either using a rail which serves as the base support for attachment to ladders, or by direct attachment to the building substructure using a fastening set.

## BENEFITS

- Simple attachment of the system by means of clamping to ladders or steel structures.
- Increased safety in the event of a fall, thanks to consistent cable pre-tensioning.
- Prevention of incorrect use, thanks to the vertical slider with safety function (up & down).
- Economical solution, because no safety cage is required, thanks to the use of the VERT-LIFELINE-SYSTEM.

Currently no updates for this product

# Technical product description

The system s principle component is our stable and proven 8 mm stainless steel cable. The cable, together with the various individual components, such as the passable intermediate brackets and curve elements, the end lock, and the slider matched to the system, with safety function (up & down), combine to create an integrated, harmonised system. For installation on ladders, there is the option of further protecting the exit area upwards, by means of an extension with an additional rail.

## TECHNICAL BENEFITS

Reduction of installation effort
The maximum separation of the fastenings along a ladder and for installation on steel constructions is 5 metres. From a financial point of view, the wide fastening distances have a positive effect on the overall installation process.

Simple checking of readiness for use
The easily visible cable fastening allows a precise assessment of the cable clamping, and thus a simple inspection of the lifeline system s readiness for use (end lock with viewing window).

Reduction of fall force
The VERT-GLEIT-50 has an integrated energy absorber and reduces the force acting on the user to 6 kN max.

Components and associated equipment

# Components

## VERT-TYP-50

Rating plate VERT-TYP-50, vertical lifeline system

**Dimensions:** 3 x 12 cm
**Material:** plastic
For sticking on VERT-SET-50!

## VERT-TYP-80

Rating plate VERT-TYP-80, vertical lifeline syst

**Dimensions:** 3.5 x 12.5 mm
**Material:** Stainless steel A4

## VERT-SET-50

Vertical lifeline system VERT-SET-50

**Mountable on:** ladders **Rung dimensions:** max. 45 x 45 mm, Ø 45 mm **Material:** stainless steel (AISI 304), aluminium
Additional safety fixation on the structure oft he building (VERT-SAFE-50) optionally available!

## VERT-SET-80

Vertical lifeline system VERT-SET-80

**Substructure:** L-corner constructions
**Flange width:** 60 - 250 mm
**Flange thickness:** 6 - 25 mm
**Material:** Stainless steel V2A (AISI 304), aluminiu ust be used only in combination with BEF-850-01/-02/-03.

## VERT-SZH-50

Intermediate bracket SZH-50 for vertical systems

**Mountable on:** ladders
**Rung dimensions:** max. 45 x 55 mm, Ø 45 mm
**Material:** stainless steel (AISI 304)
Distance between intermediate bracket 5 m!

## VERT-SZH-80

Intermediate cable bracket SZH-80

**Substructure:** BEF-850-01/-02/-03
**Material:** Stainless steel V2A (AISI 304)
Must be used only in combination with BEF-850-01/-02/-03!
Intermediate bracket separation 5 m!

# Accessory items

## VERT-GLEIT-50

Slider GLEIT-50 for vertical lifeline systems

**Material:** stainless steel (AISI 304), (AISI 316)
can be quickly attached or detached at any point of the lifeline system,
with integrated fall shock absorber
for passing over the intermediate bracket (VERT-SZH-50)

## VERT-SAFE-50

Redundant protection SAFE-50

**Mountable on:** structure
**Material:** aluminium
Additional protection to fasten VERT-SET-50 on the structure of the building!

## BEF-850-01

Fastening set BEF-850-01

**Material:** Stainless steel V2A (AISI 304)
**Flange width:** 60 to 120 m
ust be used only in combination with BEF-851/-852/-853.
Available only upon request.

## BEF-850-02

Fastening set BEF-850-02

**Material:** Stainless steel V2A (AISI 304)
**Flange width:** 120 to 180 m
ust be used only in combination with BEF-851/-852/-853.
Available only upon request.

## BEF-850-03

Fastening set BEF-850-02

**Material:** Stainless steel V2A (AISI 304)
**Flange width:** 180 to 250 m
ust be used only in combination with BEF-851/-852/-853.
Available only upon request.

## BEF-851

Fastening set for VERT-SET-80

**Material:** Stainless steel V2A (AISI 304)
**Flange thickness:** 6 to 12 m m
Just be used only in combination with BEF-850-01/-02/-03.

Available only upon request.

## BEF-852

Fastening set BEF-852

**Material:** Stainless steel V2A (AISI 304)
**Flange thickness:** 12 to 18 m
ust be used only in combination with BEF-850-01/-02/-03.
Available only upon request.

## BEF-853

Fastening set BEF-853

**Material:** Stainless steel V2A (AISI 304)
**Flange thickness:** 8 to 25 m
ust be used only in combination with BEF-850-01/-02/-03.
Available only upon request.

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