

COMPLETE CATALOGUE

SAFE WITH CERTAINTY

Quality leader in fall protection



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COMPANY

Company



INNOTECH ARBEITSSCHUTZ COMPANY

Founded in 2001, INNOTECH® Arbeitsschutz is a family-owned company with headquarters in Kirchham and branch offices in Germany and Switzerland. From the onset, the company has placed great worth on innovative, customised solutions. With a dedicated research and development team, INNOTECH® soon set international standards in the area of occupational safety. Ever since, it has driven forward the further development of innovative products. Today INNOTECH is one of the largest manufacturers in Europe which has specialised exclusively in the production of safety systems, with 88% from its own manufacture, in order to guarantee maximum quality.

WORKER PROTECTION AND SAFETY AT WORK

According to various statistics, several hundred people have an accident on roofs every year. Accidents that could have been prevented with appropriate safety equipment and the diligent installation of high-quality fall protection systems. In the area of worker protection, INNOTECH® is the joint author of planning documents and is a joint founder of the international working group D.A.CH.S., which consists of experts from Germany, Austria, Switzerland, and South Tyrol, and whose aim is to create cross-border regulations for fall protection systems.



FULL SERVICE PROVIDER

In order to comply with all legal, moral, and ethical requirements, INNOTECH® believes that its mission is to pass on its knowledge to customers, partners, and employees in many ways, such as detailed training. The high level of skills of approx. 140 employees ensures optimum support of our customers in 34 countries during all project phases.

HOW YOU PROTECT LIVES

INNOTECH® products are easy to use and above all they are innovative and sophisticated. The modular systems are simple and quick to install and maintain. Thanks to the modular design, any adaptation to any project size is easy – whether residential home, stadium, opera house, factory building, or the roof of a railway station. Prefabrication ensures fast delivery despite customisation.

QUALITY LEADER IN FALL PROTECTION

Occupational safety is not a matter of quantity, but rather of quality. The particularly research-oriented INNOTECH® Group is constantly working on the optimisation of its product portfolio. In our in-house test laboratory, the developments

are put through the most demanding testing. Using state-of-the-art technology, the forces acting on the products are simulated. The resulting products withstand even extreme force transmissions to a variety of substructures, and meet the high quality standards of the team. Our highly trained employees develop and plan individual solutions for all hazard areas for work on roofs, facades, in industrial plants and other hazardous sites. The parts are made from high-quality materials using cutting-edge methods at our production plant, which has been certified multiple times. The mission is clear: INNOTECH® protects lives when working at height!

WORKER PROTECTION & SAFETY AT WORK

For INNOTECH®, safety always comes first. The slogan: “How you protect lives” aims to be an appealing way of raising awareness of the issues of worker protection and safety at work, and their importance. With fall protection systems from INNOTECH®, you can feel as free as a bird when working on roofs and facades.

*QUALITY
KNOW-HOW
RESPONSIBILITY*

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*PLANS
TRAINING
DOCUMENTATION*

INNO | Services

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- Illusion of safety
- Fall protection systems
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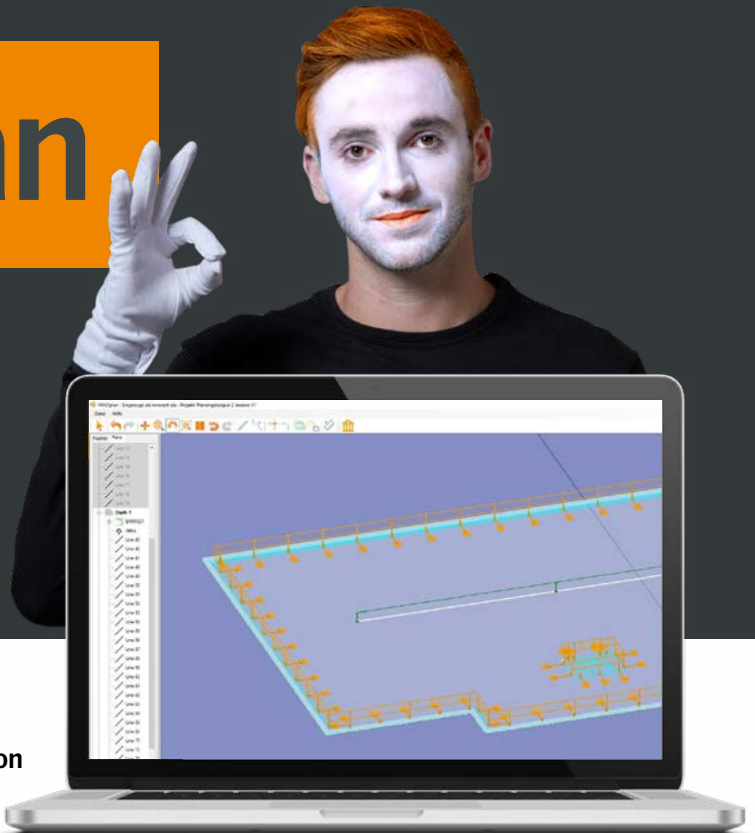
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Import of plans,
ortho-images,
sketches, or photos

Definition of
substructure, edges,
and roof surfaces

Selection of
products or
systems

Automatic generation
of parts lists and sub-
mission of proposals

Export of the plan
(pdf, dxf, dwg, ...)



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equipment variants.

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GLOSSARY

OBLIGATION TO DOCUMENT | STANDARDS

- **ÖNORM B 3417:2016-06** Planning and implementation of safety equipment on roofs
- **AUVA** Basics for the planning of anchorage devices on roofs
- **DGUV 201-056** Basics for the planning of anchorage devices on roofs
- **SUVAPRO** Basics for the planning of anchorage devices on roofs
- **INFORMATION SHEET BUILDING SHELL SWITZERLAND** Fall protection systems on inclined roofs/flat roofs

The documentation about the safety equipment must include at least:

- Overview plan of the system, including records of all protection components and accesses,
- Information about the manufacturer and the time of installation,
- Operating and maintenance instructions,
- Documentation of the installation and the last inspection,
- Numbered pictorial documentation of the fastening of all posts and anchor points

The complete documentation of all fastenings is allowed to be omitted if the anchorage points are accessible non-destructively and can be inspected at a later time. In this case, the exemplary documentation of all fastening systems used suffices.

EN 795:2012 Personal fall protection equipment – anchorage devices

A.2 Notes on documents which must be on hand after installation.

A.2.1 The installation documents serve the user as proof that the installation was done properly. Furthermore, they constitute the basis for subsequent inspections of the anchorage device, since the fastening of the anchorage devices in many cases is not visible or accessible.

A.2.2 After installation, copies of the installation documentation should be handed over to the user. These documents should be kept in the building for later inspection of the anchorage device.

A.2.3 Explanations of the competent expert fitter should be signed by him/her and contain, at a minimum, information that the anchorage device:

- has been installed according to the manufacturer's installation instructions;
- was carried out in accordance with the plan;
- was fastened to the specified substructure;
- has been fastened as specified (e.g. number of bolts, correct materials, right position/location, etc.);
- was ordered in accordance to the data supplied by the manufacturer;
- was delivered together with photographic information/documents, in particular, of fasteners (e.g. bolts) and the underlying substructure, which are no longer visible after completion of the installation.

A.2.4 If more than one anchor point must be photographed for identification, it is recommended that the anchorage devices are marked with numbers and that the numbering is included in the test log of the anchorage device as well as the schematic plan of the installation surface.

EN 365:2004, 4.6

Personal protective equipment for the prevention of falls – requirements for instruction manuals

It must be pointed out that documentation must be kept for each component, sub-system, or system.

ANNUAL INSPECTION | STANDARDS

EN 795:2012, A.2.1

The installation documents serve the user as proof that the installation was performed properly. Furthermore, they constitute the basis for subsequent inspections of the anchorage device, since the fastening of the anchorage devices in many cases is not visible or accessible.

EN517:2006, SECTION 10

With regard to the safety roof hooks, the manufacturer must specify that the device must be inspected by an expert at least every 12 months and be serviced, if deemed necessary by the manufacturer.

EN365:2004, SECTION 4.4 b

Recommendation for the intervals at which the regular inspections should take place, taking into account statutory provisions, type of equipment, frequency of use and the environmental conditions. The

recommendation must contain a statement that the periodic inspection must take place at least every 12 months.

EN365:2004, SECTION 4.7

The manufacturer must provide all necessary information and equipment, for instance, instructions, check lists, special tools, etc., to enable a qualified person to carry out regular inspections.

ANNUAL INSPECTION | LAWS

AUSTRIA

PSA-V §14, SECTION 7 Personal Protective Equipment Regulation

Items of the fall protection system must be checked for proper condition by a qualified person, as needed, depending on use conditions and operational conditions; at least, however, once per year.

ASCHG §17 SECTION 2 Labour Protection Act

Employers must ensure that items of the personal protective equipment are checked for their proper condition at regular intervals and that detected defects are immediately eliminated.

GERMANY

BETRSTICHV §10, SECTION 1 Ordinance on Industrial Safety and Health

The employer shall take maintenance measures so that the work equipment complies with all safety and health requirements applicable to it and that it is maintained in safe and sound condition.

EAP (single anchor point): Single anchor points are tested and certified in accordance with EN 795 and as per specifications of the German Institute for Building Technology.

AIO: Horizontal lifeline systems are tested and certified in accordance with EN 795 and as per specifications of the German Institute for Building Technology.

SWITZERLAND

VUV, SECTION 1: ARTICLE 51 Accident Prevention Regulation

If accident hazards and health risks cannot be completely or partly excluded by means of technical or organisational measures, the employer shall provide employees with reasonable and effective personal protective equipment, including, for example, hard hats, hair nets, protective goggles, protective shields, ear protectors, respirators, protective shoes, protective gloves, protective clothing, protection devices against falls from a height and drowning, skin protection products and, if required, special underwear. He must ensure that these items can be used as intended at all times.

VUV, SECTION 2: ARTICLE 11 Accident Prevention Regulation

The employee shall obey the instructions of the employer in relation to occupational safety and shall observe generally accepted safety rules. In particular, he shall use his personal protective equipment. It is prohibited to interfere with the effectiveness of the protective equipment. In the event that an employee notices defects that negatively affect safety, he must eliminate them immediately.

Safety systems

EAP | SINGLE ANCHOR POINT

Single anchor points are an individual form of fall protection on roofs, facades or other locations with a risk of falling. Single anchor points are used as a restraint system or fall arrest device. Single anchor points are used together with personal protective equipment (PPE) or with PPE against falls from a height. Single anchor points allow the user to attach himself, i.e. his safety harness, via a lanyard. They are usually equipped with an anchorage eye to which a carabiner is fastened, for example (in accordance with EN 362). Depending on the type of use, this protection variant keeps the user at a distance from the fall edge, either to prevent a fall (restraint system) or to catch the person if he/she is already falling (fall arrest system).

Single anchor points are used as standard protection on roof surfaces as well as in various industrial areas, e.g. on crane runways or on large machinery and production lines.

You will find an overview of EAP single anchor points in our product finder at www.innotech.at



AIO | LIFELINE SYSTEM

A lifeline system is a fall protection system consisting of a flexible stainless steel cable that is tensioned between at least two points.

Horizontal lifeline systems are used for roping up a person with PPE so that they can carry out work on roofs and facades. The use of lifeline systems is intended to ensure consistent and traversable fall protection.

They have end fastenings, including tensioning elements (end lock) and intermediate brackets.

In addition, corners (corner pass-through elements) with different angles can be created.

Horizontal lifeline systems are tested and certified in accordance with EN 795.

Vertical lifeline systems are used for climbing protection and are usually installed on ladders.

They are tested in accordance with EN 353-1.

Lifeline systems should be designed in such a way that they are traversable.

They can be used with a travelling eyebolt that travels through all intermediate brackets and corner pass-through elements.

This means the user does not have to detach and reconnect in the lifeline system himself but can perform his work while continuously secured.

One advantage, of horizontal lifeline systems in particular, are the so-called overhead systems that normally reduce the height of a fall.

You will find an overview of AIO-lifeline systems in our product finder at www.innotech.at



TAURUS | RAIL SYSTEM

A rail system offers the user the possibility of securing himself with the personal protective equipment against falls to the “moveable anchor point” or “guided type fall arrester” of the system (= rail slider); it is made for people who move in fall hazard locations.

A rail system consists of aluminium rails and fastenings as well as connectors and matching sliders. High-quality rail systems can be used on all substructures.

Optional designs are rail systems with curves and arched elements by which the system can be optimally adapted to the conditions on site; in addition, they offer the user unimpeded freedom of movement over the entire length of the rails.

The basic prerequisite is a statically load-bearing substructure. If in doubt, consult a structural engineer. By means of the prescribed “personal protective equipment (PPE) against falls from a height”, the rail slider restricts the energy passing into the slider to 6kN in all cases. The attachment substructure for the rail must withstand the energy resulting in the anchorage points.

There are horizontal, vertical, and allround systems:

Certified according to

Horizontal system: EN 795:2012 TYPE D,

Vertical system: EN 353-1:2014

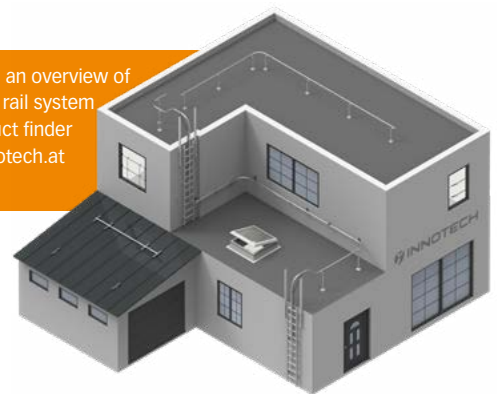
Allround system: EN 795:2012 type D + EN 353-1:2014

With appropriately approved rail sliders, the rail system is also suitable for descent energy (roped access systems (EN 363:2008)).

THE NOTIFIED ORGANISATION PARTICIPATING IN THE TYPE TEST:

DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany

You will find an overview of the TAURUS rail system in our product finder at www.innotech.at



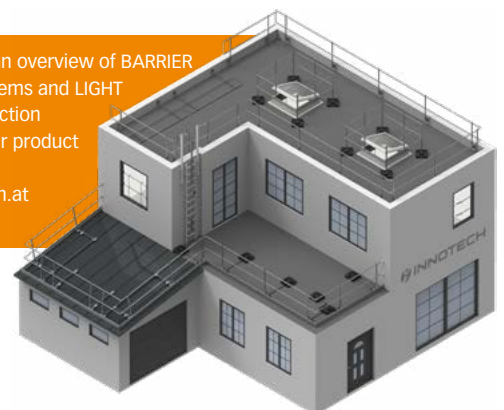
BARRIER & LIGHT | COLLECTIVE PROTECTION

The term refers to general protection facilities for fall protection such as skylight protection systems, balustrades or scaffolding. These facilities are used for the simultaneous protection of several persons in the area to be protected, and are certified as guardrail systems:

Skylight protection system:

EN 13374:2019,	GS-BAU-18
EN ISO 14122-3:2016,	DIN EN 1873:2016
DIN 14094-2:2017,	DIN EN 14963:2006

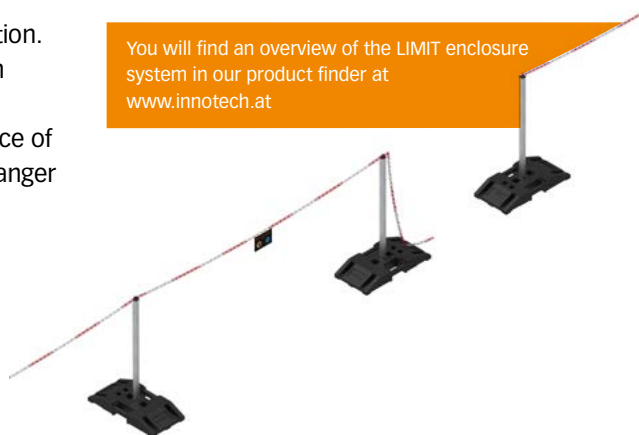
You will find an overview of BARRIER guardrail systems and LIGHT skylight protection systems in our product finder at www.innotech.at



LIMIT | BOUNDARY

Enclosure refers to a measure of collective protection. It is a measure with direct technical effect. With an enclosure, a fall cannot happen in the first place, because it is usually installed at a minimum distance of 2 metres from the fall edge. This means that the danger spot is not reached in the first place.

You will find an overview of the LIMIT enclosure system in our product finder at www.innotech.at



PSAgA | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM HEIGHTS

The wearing of a personal protective equipment (PPE) prevents a risk of injury in the case of work and activities that are subject to fall hazard, particularly on roofs or on various building surfaces. Personal protective equipment includes safety harnesses which can be individually expanded from a base strap, such as carabiners, shock absorbers and lanyards, etc. Protective equipment can also be used in agriculture, forestry, fire brigade, civil protection, in manufacturing operations, or the construction industry.

The maximum service life of the plastic and textile products has been increased and is 12 years from the date of manufacture, with optimal storage and without use. The maximum service life is 10 years. The storage period before first use is 2 years from the date of manufacture.

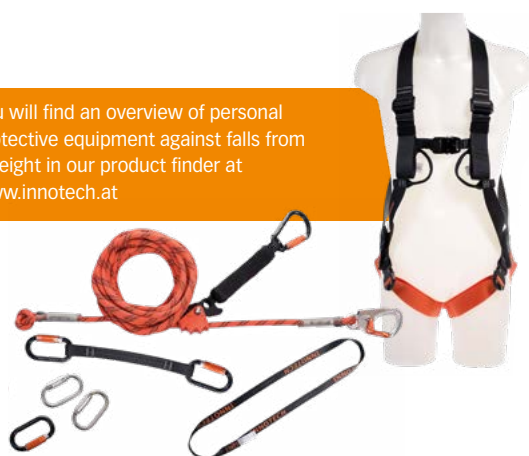
With conventional use and compliance with the instruction manual, the realistic duration of use is:

- for safety harnesses 6 to 8 years,
- for cables 4 to 6 years,
- for shock absorbers 5 years.

Base: DGUV Rule 112-198 – Use of Personal Protective Equipment against Falls from a Height (replaces BGR 198)

These periods can be extended only up to the maximum of 12 years if used less frequently. In the case of frequent use, heavy wear, or extreme environmental influences, the permitted period of use is shortened.

You will find an overview of personal protective equipment against falls from a height in our product finder at www.innotech.at



Fall protection systems

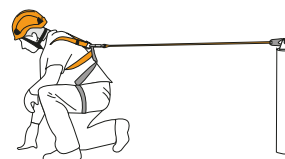
EN 363:2008 | PERSONAL PROTECTIVE EQUIPMENT AND SYSTEMS AGAINST FALLS FROM A HEIGHT

This European Standard specifies the general characteristics and the assembly of personal fall protection systems. It contains examples of the specific

types of personal fall protection systems and describes how components can be assembled into systems.

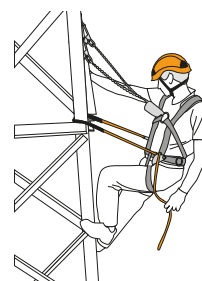
RESTRAINT SYSTEM

A restraint system is a personal fall protection system that prevents the user from reaching areas with a risk of falling.



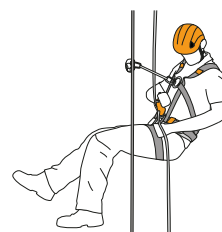
WORKPLACE POSITIONING SYSTEM

A workplace positioning system is a personal fall protection system, which allows the user to take up a working position by hooking into or hanging from the system, thereby preventing a free fall.



SYSTEMS FOR ROPE-SUPPORTED ACCESS

A system for rope-supported access is a personal fall protection system which allows the user to reach a workstation and to leave a workstation using a working line and a safety rope; these are separate from each other and are connected to reliable anchor points, thereby preventing or arresting a free fall.



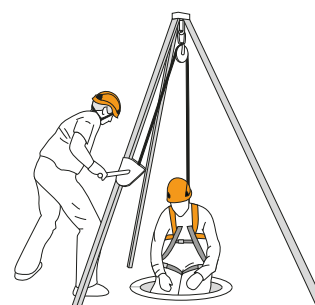
FALL ARREST SYSTEM

A fall arrest system is a personal fall protection system which limits the impact force acting on the body of the user during the arrest process.



RESCUE SYSTEM

A rescue system is a personal fall arrest system that helps a person to save himself or others in a way that prevents a free fall.



FLAT ROOF PROTECTION

Flat roof safety is a collective term for various measures to prevent falling from roof surfaces. Flat-roof safety devices include both individual and collective protection measures which do not require personal

protective equipment against falls from a height, e.g. side protection in the form of a scaffold or guard rail.

PITCHED ROOF PROTECTION

Pitched roof safety devices are understood to mean various measures for protection against falling from

pitched roof surfaces (safety roof hooks, lifeline systems).

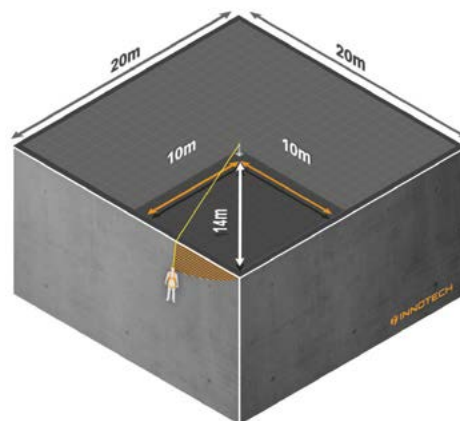
FALL EDGE

The fall edge is an edge from which people can fall in elevated and fall hazard locations.

PENDULUM FALL

If a person does not fall directly below the anchor point, but instead to one side, then they run the risk of a pendulum fall. In this case, the falling body oscillates back and forth like a pendulum, which greatly increases the risk of secondary injuries such as bruises and fractures. Therefore, in the planning of fall protection solutions, care should be taken that the user can

always move as perpendicularly as possible to the anchorage device.



SHOCK ABSORBER

A shock absorber reduces the forces occurring during a fall. It is a multi-layer sewn strap, which rips apart in the fall and thus reduces the forces occurring by a maximum of 6 kN. This elongation must be taken into

account when used in restraint and fall arrest systems. Energy absorbers are frequently integrated into the lanyards.

LANYARDS

The lanyard establishes the connection between the anchorage device and the person to be secured: It is fastened at one end to the anchor point or lifeline/rail system and at the other end to the safety harness that the user carries on their body. The lanyard is either a flexible strap made of cable or a harness strap (fastener as per EN 362) or a fall arrest device (as per EN 360).

In principle, the lanyard should be used in combination with a shock absorber. Fall arrest devices are often equipped with integrated absorbers.

SAFETY HARNESS

This is a safety harness worn on the body, and is thus part of the personal protective equipment against falls (PPE against falls). Safety harnesses (or fall arrest vests) must be certified to EN 361 and checked for their condition at least once a year.

Safety harnesses have a D-ring, to which the carrier attaches their lanyard and thus establishes a connection to the anchorage device. Safety harnesses guide the forces occurring during a fall through the leg

loops on the thighs, in order to avoid massive injuries to more sensitive parts of the body. In addition, safety harnesses keep the wearer in an upright position after a fall. If a harness is actually used once in a fall, it must be replaced.

FALL ARREST DEVICE

This is understood to be a device that serves as a lanyard.

A fall arrest device contains a cable or strap which is wound on a drum. In normal operation, the cable or strap can be pulled out of the housing with slight resistance. In the event of a fall, however, a brake acts on the drum and the free fall of the person is

stopped. Fall arrest devices are often equipped with an integrated absorber which eliminates the need for a shock absorber.

Fall arrest devices must be tested and certified according to DIN EN 360

EN 795 – TYPES | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT – ANCHORAGE DEVICES

EN 795 governs the technical prerequisites for “personal fall protection equipment – anchorage devices”. This standard generally defines, for example, the technical solutions for withstanding fall arrest forces and how they must be tested and certified in order to be approved for the market.

According to EN 795, there are five types of anchorage devices that can be fundamentally differentiated (types A to E).

- **Type A:** Individual anchoring points anchored firmly to the subsurface
- **Type B:** Temporary anchor points, which can be removed again (e.g. only clamped)
- **Type C:** Lifeline systems
- **Type D:** Rail systems
- **Type E:** Systems held by superimposed load

CEN/TS 16415 | MULTI-PERSON TESTING

This Technical Specification provides recommendations for requirements, apparatus, test methods, labelling, and information made available by the manufacturer for anchorage devices designed for simultaneous use by several persons.

This Technical Specification does not apply to:

- Anchorage devices designed for use by only one person at a time, such as those described in EN 795;
- Anchorage devices used in sports or leisure activities;

- Anchorage devices designed so that they comply with EN 516 or EN 517;
- Elements or components of structural devices which are not intended as anchor points or anchorage devices, but are for a different purpose, e.g. as beams, girders;
- Structurally anchored fasteners.

COMMENTS: Requirements, test methods, labelling and information made available by the manufacturer, which are designed for anchorage devices intended for use by one person are covered in EN 795: 2012.

89/686/EEC | PPE DIRECTIVE

The PPE Directive 89/686/EEC governs, in principle, the conditions for placing on the market and the essential safety requirements with which personal protective equipment against falls from a height (PPE or PPE against falls) must comply.

Subsection 3.1.2.2. deals explicitly with the “prevention of falls from height”.

As of April 2019, the new EU PPE Directive 2016/425 applies.

EN 353-1 | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT

Part 1: Guided type fall arresters, including fixed guide

This standard specifies the test and certification criteria for “Personal protective equipment against falls from a height - Part 1: Guided type fall arresters including fixed guide”. Among other things, it generally defines how vertical lifeline systems and other fall arrest solutions

must be technically designed.

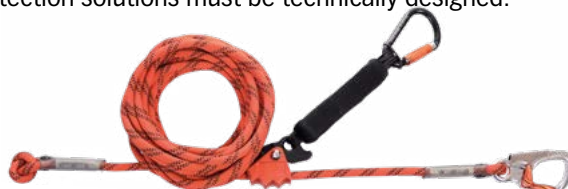


EN 353-2 | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT

Part 2: Guided type fall arresters, including flexible anchorage line

This standard specifies the test and certification criteria for "Personal protective equipment against falls from a height - Part 2: Guided type fall arresters including flexible anchorage line". Like the first part, it also

covers how vertical lifeline systems and other climbing protection solutions must be technically designed.



EN 355 | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT - ENERGY ABSORBERS

This includes the details about how energy absorbers (friction energy absorbers, strap or rip energy absorbers)

must be technically constructed. This standard also regulates the loads that they must withstand.

EN 360 | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT – FALL ARREST DEVICES

This standard specifies the technical requirements for fall arrest devices as well as the test criteria required for market approval.



EN 361 | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS FROM A HEIGHT – ENERGY SAFETY HARNESS (FULL BODY HARNESS)

This standard lists the technical characteristics of safety harnesses and fall arrest vests as part of the PPE against falls. The requirements, labelling, manufacturer's information, and packaging for safety harnesses are described in detail.



EN 362 | PERSONAL PROTECTIVE EQUIPMENT AGAINST FALLS – CONNECTORS

EN 362 governs the technical requirements for lanyards.



EN 517 | PREFABRICATED ACCESSORIES FOR ROOF COVERING – SAFETY ROOF HOOKS

This standard specifies the requirements for roof hooks that are marketed as construction products. At the core of this standard are the materials from which the safety roof hook is made, its load bearing capacity, and the load capacity of the associated fasteners (bolts, etc.). The standard defines the type and scope of the necessary tests required for certification.

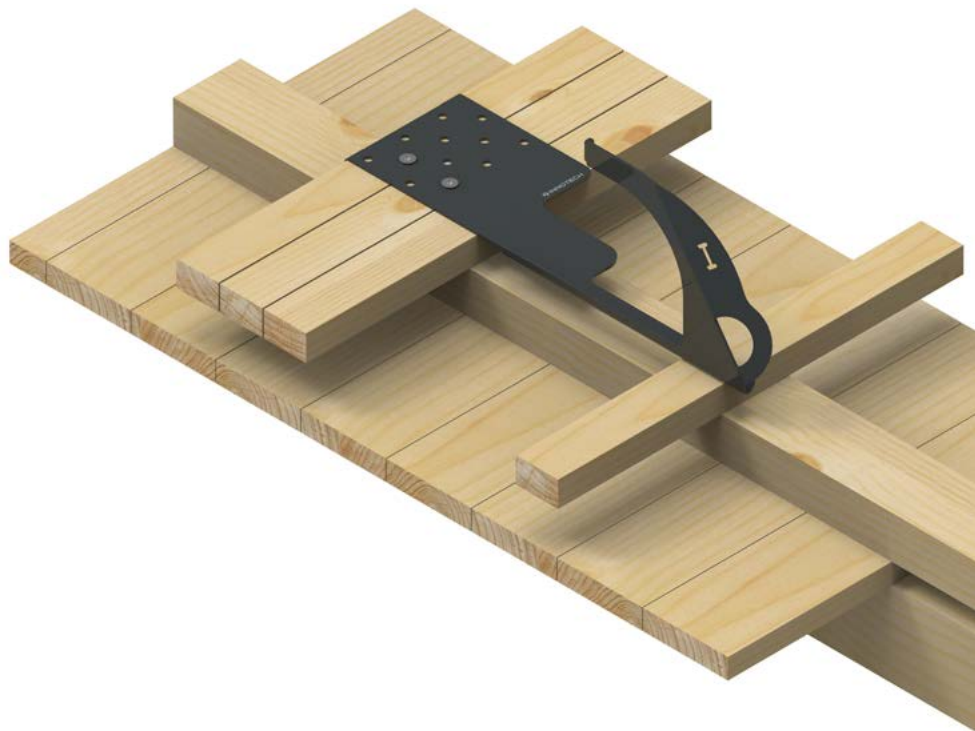
In principle, safety roof hooks of type A and type B are distinguished as per EN 517. The difference lies in the permissible load direction:

EN 517 Type A: These products can be loaded and used only in the direction of the fall line of the roof surface. The user is permitted to move only below the anchor point during roof work.

EN 517 Type B: These products are tested for the “absorption of tensile forces acting in the direction of the fall line (y-axis), counter-directional to the fall line (y axis), as well as perpendicular thereto, and parallel to the roof surface (x-axis)”. People who use this type B can therefore also move laterally in the direction of the ridge, work above the roof hook in the direction of the ridge and even go beyond this limit to the other half of the roof.

The standard specifies the test forces that are introduced into the anchor point as part of the framework of static and dynamic load tests.

This standard also contains information on the labelling requirement, on conformity, and on production control.



DIBT APPROVAL

DIBT | GERMAN INSTITUTE FOR BUILDING TECHNOLOGY

For some years, the German Institute for Building Technology (DIBt) has laid down the requirements for a "General Building Inspection Approval (abZ) of anchor points and fall protection systems"; these are designed for extended periods of working on and/or on top of buildings. It is not relevant how the respective system has been fastened. For the corresponding anchorage devices, the DIBt requires a test in which the stability of the connection to the installation substrate is to be ensured.

The legal basis of the DIBt claims is a judgement of the European Court of Justice (ECJ) of 21 October 2010 (Case C-185-08).

This document defines which anchor points form part of the personal protective equipment as per PPE Directive 89/686/EEC and which are classified as a construction product as per directive 89/106/EEC. The German conformity labelling on the products indicate the general building inspection approval and also show that this product is tested once a year for its conformity with the product approved by the DIBt. The national technical approval does not replace certification as per EN 795, but rather supplements it.

ABZ | NATIONAL TECHNICAL APPROVAL

The German Building Inspection Authority (abZ), often referred to as the DIBt approval, is required by the German Institute for Building Technology for

all anchorage and fall protection devices which are intended to remain permanently on the building.

GERMAN CONFORMITY LABELLING RULES

The German conformity labelling rules on fall arrest products such as anchor points is based on the general building inspectorate approval and also indicates that this product is inspected annually for its conformity with the product approved by the German Institute for Building Technology (DIBt). According to the current requirements of the DIBt, this check must be carried out by an external testing institute.

Important aspects include, but are not limited to, regular pull-out tests and drop tests, the traceability of

the products and their components, and the assurance that trained personnel will be employed in the manufacturing process.

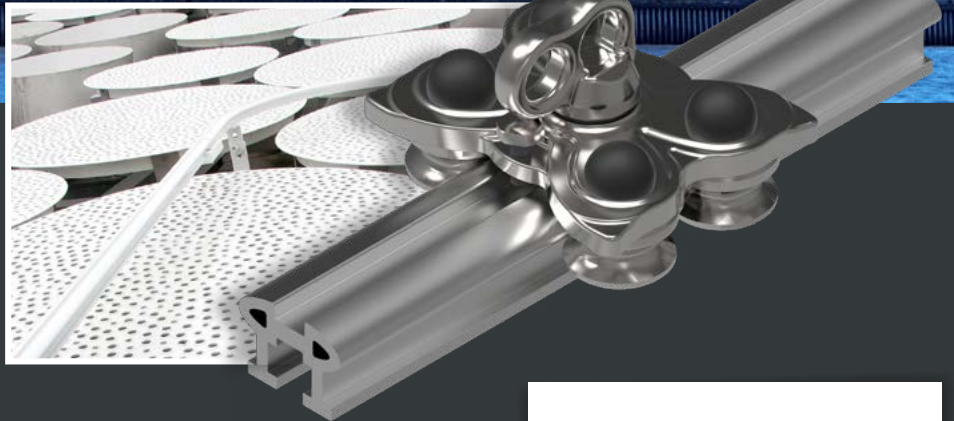
However, the German conformity marking regulations on the product do not replace the compulsory marking according to EN 795.

PERFECT INTEGRATION THROUGH
INDIVIDUAL COLOUR SELECTION

TAURUS

Rail system

ELBPHILHARMONIE
Hamburg, Germany



- For indoors & outdoors.
- Can be used on all substructures.
- Individual colour selection means perfect integration with the architecture.
- Various curves and torsions possible.
- Maximum freedom of movement along the entire length of rail.

MORE SAFETY.
MORE INFORMATION.
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PLANNING & STATICS

GENERAL

The rated load results from the fact that the user must be equipped with PPE for which the maximum fall arrest load is limited to 6 kN.

This is also described in the prevailing standard EN795:2012 in item 7b.

According to this, the following rated loads result, depending on the number of users:

	6 kN (dynamic)	= 6 kN
	6 kN (dynamic) + 1 kN (static)	= 7 kN
	6 kN (dynamic) + 2 kN (static)	= 8 kN
	6 kN (dynamic) + 3 kN (static)	= 9 kN

This rated load acts on the respective anchor point. With single anchor points, force dissipation takes place through the anchor point and the respective INNOTECH® product directly into the substructure.

With the lifeline system (AIO lifeline system), the load introduced on the anchor point is transferred through the cable to the anchor points or guide points of the AIO lifeline system. Due to the cable geometry and the components for energy absorption used in the lifeline system, the rated loads on the anchorage points (end/corner points of the system) vary. These loads are shown separately in the respective AIO lifeline system. The values stated for the rated load have been verified in live tests on the respective roof construction. The roof constructions were reconstructed in the test lab

and tested with the lowest values for load-bearing capacity in each case.

An application of partial safety factors to the rated load (e.g. according to EC) was not provided by INNOTECH®. This is the responsibility of the engineer who continues using these values for the protection of the respective substructure. This is done intentionally in order to avoid an arbitrary accumulation of safety factors, since the load here is a dynamic load introduction (pulse duration 200 ms) that can in no way be compared to a static load.

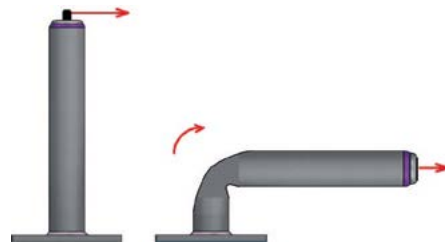
RATED LOAD, STABIL POSTS

Since, due to the design, the post is loaded well beyond the limits of elasticity, the calculation must take into account the elastoplastic material behaviour. This material behaviour causes a certain amount of energy

destruction in the component, thus contributing to the reduction of transmitted loads in the attachment substructure.

A permanent deformation of the components after the load is a guarantor for high energy absorption and reduced load introduction into the substructure!

For INNOTECH®-STABIL products, the plastic deformation factor is assumed to be approx. 2 kNm. This applies to all STABIL and AIO-STA products (regardless of lengths). The rated load in the case of purely static load (e.g. 4 people are hanging in the system) is always lower than the underlying deformation factor.



AIO LIFELINE SYSTEM

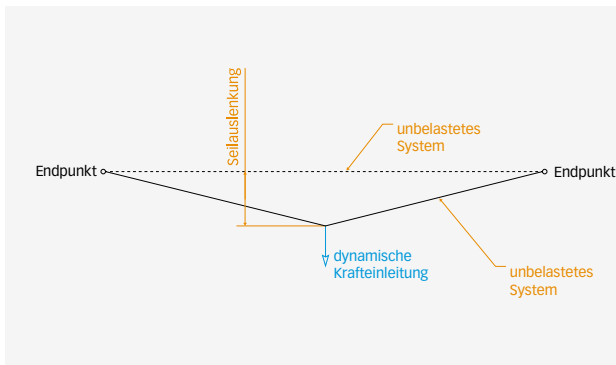
The following specifications and conditions are prerequisites when considering the AIO lifeline system:

- 6 to 15 m cable spans between the anchor points
- AIO 8 mm cable made from material 1.4401
- The maximum dynamic force that can be introduced per person is restricted to 6 kN by the shock absorber.
- Load from 4 people: 6 kN (dynamic)
+ 3 x 1 kN (static) = 9 kN
- Force into a moveable anchor point in the middle of a tension field
- load-bearing substructure

Since this is a theoretical model of the AIO lifeline systems, the force situation may correspondingly vary in practice.

Here the following influencing factors may be stated:

- Cable pre-tension
- Damping properties of the anchor points
- Characteristics of the roof structure
- Lengths of cables or cable sections
- Friction in the corner pass-through elements
- Fall behaviour of the person who falls



The rated load occurring in the lifeline system of 9 kN (4 persons) acts on the mobile anchorage point(s) and is transmitted via the cable into the anchorage points. The rated loads occurring here that are also transmitted to the substructures are listed in the AIO load tables (see "Load tables" sheet).

With some INNOTECH® products which are used as end or corner points, the use of a force absorber integrated into the cable system is prescribed. This is expressly specified in the AIO load tables (see "Load tables" sheet). By means of plastic deformation, the force absorber absorbs some of the energy released in the fall, and thus reduces the loads transmitted to the

substructure. The following INNOTECH® products are used as force absorbers in the AIO lifeline system:

- INNOTECH®-SHOCK

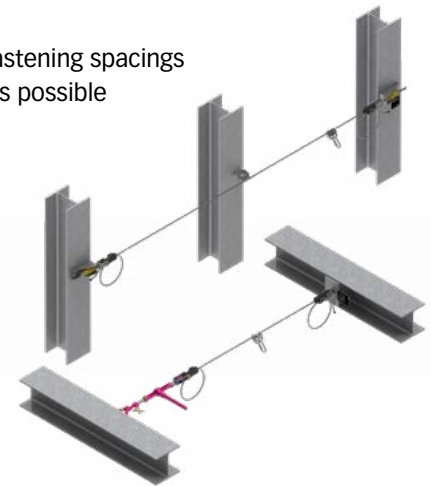
IND LIFELINE SYSTEM

A special lifeline system with a cable diameter of 10 mm was developed for industrial applications. It is used in all cases in which the attachment is made to massive steel girders. The IND lifeline system is always attached directly to the substructure.

The cable deflection caused by a fall is limited to 200 cm. This value applies regardless of the length of the cable or the fastening spacings of the lifeline system. Force-absorbing elements are already integrated; the cable guidings between the end points are compressed in each case. This facilitates pre-tensioning the individual cable sections during

installation, and a higher pre-tensioning of the cable can be chosen. The advantages of this are a lower cable sag and reduced cable deflection in the case of a load.

An increase of the fastening spacings (greater than 15 m) is possible on request.



TAURUS RAIL SYSTEM

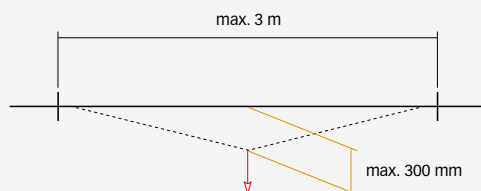
The following specifications and conditions are prerequisites when considering the TAURUS rail system:

- Maximum fastening spacing of the rails 3m
- The maximum dynamic force that can be introduced per person is restricted to 6 kN by shock absorber.
- Introduction of force into a mobile anchorage point
- A maximum of 4 people per 10 m rail length
- Load-bearing substructure

Since this is a theoretical model of the TAURUS rail system, the force situation may accordingly vary in practice. Here the following influencing factors may be stated:

- Area of application (horizontal, vertical, overhead application)
- Damping properties of the anchor points
- Characteristics of the roof structure
- System layout (straight or curved rail run)
- Fall behaviour of the person who falls

A fall directly at an anchorage point is seen as the worst-case load in the TAURUS rail system. Since only one person can be on the point of the moveable anchor point, the rated load is 6 kN.



The measure of the plastic deformation between two anchorage points is estimated at a maximum of 300 mm. Again, the fall of a single person in this rail section is assumed here.

EAP (SINGLE ANCHOR POINTS)

Product name	Max. people permitted	Rated load	
		Force [kN]	Deformation factor [kNm]
EAP-STABIL-10	4		2
EAP-STABIL-12	4		2
EAP-POINT-11	3	8	
EAP-POINT-12	3	8	
EAP-POINT-13	3	8	
EAP-POINT-15	3	8	
EAP-QUAD-11	3	8	
EAP-QUAD-13	3	8	
EAP-SPAR-10	3	8	
EAP-SPAR-11	3	8	
EAP-SPAR-15	1	6	
EAP-LOCK	2	7	
EAP-SLING-10	2	7	
EAP-SAND-10	3	8	
EAP-SAND-11	3	8	
EAP-SAND-12	3	8	
EAP-SAND-13	3	8	
EAP-SAND-31	3	8	
EAP-FALZ-15	3	8	
EAP-SYST-01	3	8	
EAP-SYST-04	3	8	
EAP-SYST-09	3	8	
EAP-INDUSTRY-11	3	8	
EAP-INDUSTRY-19	3	8	
EAP-INDUSTRY-31	2	7	
SDH-02	2	7	
SDH-INDUSTRY-31	1	6	

AIO (LIFELINE SYSTEM)

Product name	Max. people permitted	Max. field length [m]	Rated load		Max. cable deflection [cm]	Shock absorber°
			End point [kN]	Deformation factor [kNm]		
AIO-STA-XX	4	15		2	see Table	
AIO-STA-12 + BEF-210	4	15		2	see Table	2x
AIO facade	4	7.5* 15	22 25		see Table	
AIO BEF-411	4	10	20		105	
AIO BEF-810/811	4	15	18		270	1x (2x)
AIO BEF-830/840	4	15	22		220	1x (2x)
AIO-SAND-10	4	7.5	17		80	
AIO-SAND-11	4	7.5	17		80	
AIO-SAND-12	4	7.5	17		80	
AIO-SAND-13	4	12	15		200	1x (2x)
AIO-FALZ-45	4	7.5	12		80	
AIO-SYST-01	4	7.5	17		80	
AIO-SYST-04	4	7.5	17		80	
AIO-SYST-09	4	7.5	12		160	1x (2x)
AIO-SYST-20	4	12	20		125	
AIO-VARIO-45	2	10	-		350	1x (2x)
KIT-BOX (on AIO-STAx-600)	4	15		2	330	
KIT-BOX facade	4	7.5*	13		150	
TEMP	4	20	22		300	
AIO-IND-10	4	15	25		200	integrated
AIO-IND-10-TEMP	4	7.5	25		120	integrated
AIO-BKS	4	12	12		270	1x (2x)
AIO-QUAD-13-END-600	4	15	12		305	

* Field length recommended by INNOTECH, ° cable span – straight = 1x shock absorber, cable span – including curve = 2x shock absorbers
 Lifeline system – non-traversable = no shock absorber (integrated in the end lock)

AIO ON AIO-STA-XX WITH POST LENGTH $L \geq 600$ MM

	Field length [m]				
	5	7.5	10	12	15
Cable deflection [cm]	165	195	225	260	285

AIO ON FACADE

	Field length [m]				
	5	7.5	10	12	15
Cable deflection [cm]	55	75	87	100	120

Equipment classes

Category of use ▶▶ Use and maintenance intensity Professional group (groups of persons) ▼▼	A > 5 years Use and maintenance interval: very modest	B 2 to 5 years Use and maintenance interval: modest	C < 2 years Use and maintenance interval: moderate (e.g. snow clearing, ventilation maintenance, solar panels, etc.)	D several times per year Use and maintenance interval: work at height even in bad weather and in the dark
Roof professionals People who are trained in dealing with the set-up of temporary fall protection systems and cable protection. e.g. roofers, plumbers, carpenters, steel constructors,...	Equipment class 1	Equipment class 2	Equipment class 2	Equipment class 3
Atypical roof professionals People who are trained in dealing with cable protection. e.g. ventilation engineers, gardeners, equipment engineers, installers, chimney sweeps,...	Equipment class 2	Equipment class 2	Equipment class 3	Equipment class 3
Private users People who are not trained in dealing with cable protection. e.g. building owners, tenants, house staff,...	Equipment class 3	Equipment class 3	Equipment class 3	Equipment class 3
Everyone Public pedestrian traffic e.g. in playgrounds, underground parking, generally accessible roof terraces, public buildings,...	Equipment class 4	Equipment class 4	Equipment class 4	Equipment class 4

EQUIPMENT CLASS 1

- Anchorage devices with single anchor points; permitted also for temporary use if there is a simple installation option
 - Lighting elements installed flush with the roof covering are to be secured against fall-through (e.g. plastic translucent corrugated sheets, the components of which are often difficult or impossible to recognise, because of dirt, snow, etc.)
 - Access to the roof surface via permanently installed equipment or via the building (e.g. internal or external steps, ladder with back and/or climbing protection); the use of simple ladders without additional measures is permitted up to a fall height of 5 m.
-

EQUIPMENT CLASS 2

- Anchorage devices with horizontal guides (e.g. lifeline systems, rails) as protection against fall; supplementary anchorage devices with single anchor points may be permitted or required.
 - Lighting elements must generally be secured against fall-through (at least SB 300 as per ÖNORM EN 1873:2006)
 - Access to the roof surface via permanently installed equipment or via the building (e.g. internal or external steps, ladder with back and/or climbing protection); the use of simple ladders without additional measures is permitted up to a fall height of 5 m.
 - Electrical connection option in the maintenance area for use categories C and D
-

EQUIPMENT CLASS 3

- Pedestrian traffic routes and workplaces with collective protection devices (side protection as per ÖNORM EN13374 with 1 m height) are to be provided at the edges.
 - Roof areas of lower equipment class are to be permanently and clearly visibly enclosed.
 - Access to the roof surface via permanently installed equipment or via the building (e.g. internal or external steps, ladder with back and/or climbing protection); the use of simple ladders without additional measures is permitted up to a fall height of 5 m.
 - Fixed lighting for frequent maintenance work in the dark
 - Electrical connection option in the maintenance area for use categories C and D.
-

EQUIPMENT CLASS 4

- Pedestrian traffic routes and workplaces must be implemented as per the building regulations.

Determination of length



WHY IS IT SAFE TO BUY INNOTECH® PRODUCTS?

INNOTECH® fall protection systems can be plastically deformed, in order to absorb the incurring force introduction and minimise the load on the substructure. Thanks to a specially developed sleeve design, the force does not act directly on the welded connection, and the inflexion point is shifted upwards.

The range of products includes many fastening sets and base plates for installation on almost any substructure. For better maintenance and documentation, INNOTECH® solutions are furnished with an individual serial number. INNOTECH® products are weather-resistant.

INNOTECH® provides top quality.

Every year, we invest around EUR 2 million in the new development of fall protection products. The focus is on end-products that ensure the highest level of safety at work and are easy to use.

All INNOTECH® products fulfil the required certifications and comply with the highest standards. In our state-of-the-art test laboratory at our headquarters in Kirchham, Austria, all products undergo a continuous series of tests.



DETERMINATION OF THE CORRECT POST LENGTH

ROOF SYSTEM

(Thermal insulation + roof sealing)

+ min. 200 mm
(max. 300 mm)

+ ROUNDING UP

= MINIMUM LENGTH

EXAMPLE OF USE

370 mm Roof system
(thermal insulation + roof
sealing)



200 mm at least 150 mm
vertical bonding
+ 50 mm post spacing

570 mm Minimum length + rounding

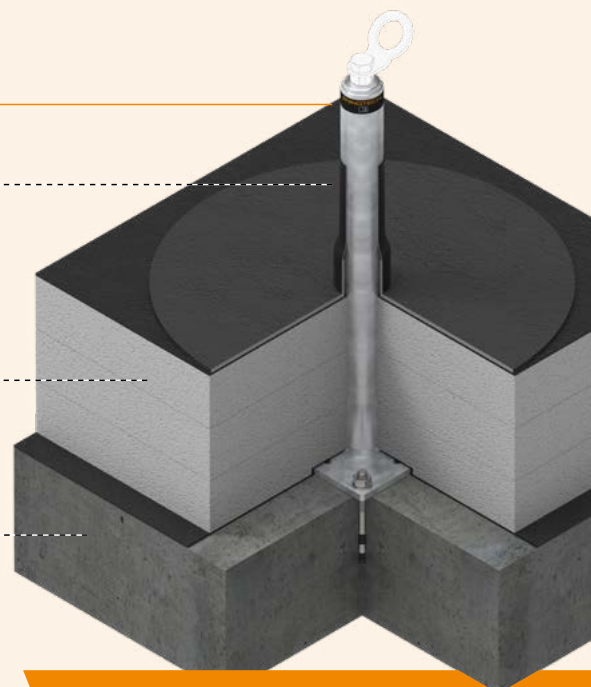
600 mm suitable post length

Total length of system post

at least 150 mm vertical bonding
above the highest water-carry-
ing level

Roof system (thermal insulation
+ roof sealing)

Attachment substructure



PRODUCT DESIGNATION:

STABIL/STA-10-400
STABIL/STA-10-600



SINGLE ANCHOR POINTS & SYSTEM POSTS

Definitions

PICTOGRAMS



360° rotatable eye



maximum number of people



Maximum spacing of intermediate brackets/
posts in the lifeline system



360° rotatable eye



Intermediate post, suitable
in the lifeline system



Shock absorber



Shock absorber for DIBt-
approved products



for transverse loads



for transverse and axial loads



suitable for abseiling (1 person)
only in combination with EAP-ABP-10-30-A4



Suitable for abseiling
(1 person, ≤ 600 mm post length)
only in combination with EAP-ABP-10-30-A4



Weather-resistant stainless steel (V2A)



Weather-resistant stainless steel (V4A)



DIBt-approved product

SUBSTRUCTURES



CONCRETE
C 20/25



CONCRETE
Hollow-core slab



WOOD
Solid



WOOD
Lightweight roof/OSB



WOOD
Pitched roof/
rough formwork



TRAPEZOIDAL SHEETING
Supporting sheet



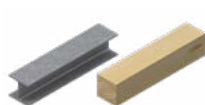
TRAPEZOIDAL SHEETING
Sheet



STANDING SEAM
ROOF



SLIDING BOW ROOF

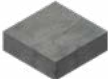














COUNTERS



FLAT ROOF
Superimposed load

Post spacings

Substructure	Post spacing max. [m]	End/corner post	Intermediate post	Support spacing overhead [m]
	15	AIO-STA-10 AIO-STA-11 AIO-STA-12 AIO-STA-16	EAP-QUAD-11 EAP-QUAD-13 EAP-POINT-13 EAP-POINT-15	7.5
	15	AIO-STA-12	EAP-QUAD-11	Special solution
	15	AIO-STA-10 AIO-STA-11 AIO-STA-12 AIO-STA-16	AIO-STA-10 EAP-QUAD-11	
	15	AIO-STA-12	EAP-QUAD-11	7.5
	12	AIO-BKS-GP-01 AIO-BKS-AW-01	AIO-BKS-GP-01 AIO-BKS-AW-01	
	15	AIO-STA-10 AIO-STA-11 AIO-STA-12	EAP-QUAD-11	
	15	AIO-STA-10 AIO-STA-12 EAP-QUAD-13-END-600	EAP-QUAD-11 EAP-QUAD-13	Special solution
	12	AIO-SAND-13-A2 AIO-SYST-20-475-695	AIO-SAND-13-A2 AIO-SYST-20-475-695-SZH	
	7.5	AIO-SAND-10-A2 AIO-SAND-11-A2 AIO-SAND-12-A2	AIO-SAND-10-A2 AIO-SAND-11-A2 AIO-SAND-12-A2	
	7.5	AIO-SYST-01-410-610 AIO-FALZ-45-640 AIO-FALZ-45-790	AIO-SYST-01-410-610-SZH SZH-INDUSTRY-31 SZH-INDUSTRY-31-CU AIO-FALZ-25-640 AIO-FALZ-25-790	
	7.5	AIO-SYST-04-305-333 AIO-SYST-04-400-500 AIO-SYST-09-500 AIO-FALZ-45-640 AIO-FALZ-45-790	AIO-SYST-04-305-333-SZH AIO-SYST-04-400-500-SZH AIO-SYST-09-500 AIO-FALZ-25-640 AIO-FALZ-25-790EAP	
	15	AIO-STA-10 AIO-STA-11 AIO-STA-12 AIO-STA-16	EAP-POINT-15	15
	10	AIO-VARIO-45	AIO-VARIO-45	
	7.5	AIO-EB-11	AIO-SZH-11	
	15	IND-EB-40	IND-SZH-10	15

SINGLE ANCHOR POINTS/SYSTEM POSTS

Concrete – C20/25



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Standard post with rotating anchorage eye

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel, stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-104-A4 V4A DIBt
- 2 BEF-111
- 3 ADHESIVE ANCHOR

EAP-STABIL-10-400
EAP-STABIL-10-600



CENT/TS 16415

EN 795 A

DIBt



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-103
- 2 BEF-104-A4 V4A
- 3 ADHESIVE ANCHOR

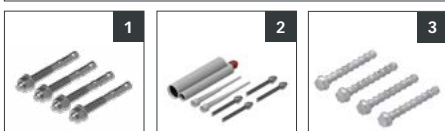
EAP-QUAD-11-400
EAP-QUAD-11-600

SET EAP-101-QUAD-11-400
EAP-101-QUAD-11-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 212 x 212 x 5 mm
- Packaging unit: 1 unit/10 units
- Material: coated steel RAL 7004, stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-104-A4 V4A
- 2 ADHESIVE ANCHOR
- 3 BEF-111

EAP-QUAD-13-400
EAP-QUAD-13-600



CENT/TS 16415

EN 795 A

SET ARTICLE

SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 18 mm
- Drill hole: Ø 18 mm (drilling depth at least 130 mm)
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

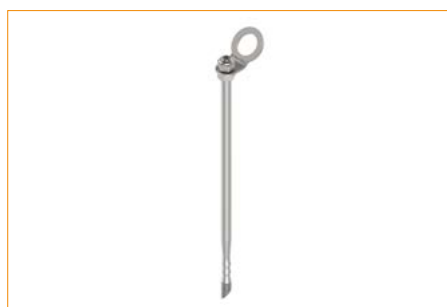
➔ Quick installation by defined torque
Ideal for annual inspection

EAP-POINT-12-400
EAP-POINT-12-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Drill hole: Ø 18 mm (drilling depth at least 120 mm)
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

1 BEF-110

2 MONT-FIS-SB-390-S

EAP-POINT-13-400
EAP-POINT-13-600

SET

EAP-101-POINT-13-400
EAP-101-POINT-13-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Drill hole: Ø 18 mm (drilling depth at least 100 mm)
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

1 MONT-FIS-SB-390-S

EAP-POINT-15-400
EAP-POINT-15-600



CENT/TS 16415

EN 795 A

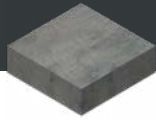
DIBt



SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Concrete – C20/25



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with rotating anchorage eye

- Usable thread length: 125 mm
- Thread: M16
- Drill hole: Ø 18 mm (drilling depth at least 125 mm)
- Material: stainless steel 304

➔ Not suitable for installation on flat roofs

Accessories:

- 1** MONT-FIS-SB-390-S

EAP-SPAR-11-125



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

with rotating anchorage eye

- Usable thread length: 200/300/400/500 mm
- Clamping area: Usable thread length less 100 mm
- Thread: M16
- Drill hole: Ø 18 mm (drilling depth at least 125 mm)
- Material: stainless steel 304

➔ Not suitable for installation on flat roofs

Accessories:

- 1** MONT-FIS-SB-390-S
2 Counters

EAP-SPAR-11-200
EAP-SPAR-11-300
EAP-SPAR-11-400
EAP-SPAR-11-500



CENT/TS 16415

EN 795 A

DIBt



SINGLE ANCHOR POINT

with rotating anchorage eye

- Usable thread length: 125 mm
- Thread: M16
- Drill hole: Ø 18 mm (drilling depth at least 125 mm)
- Material: stainless steel 304

➔ Not suitable for installation on flat roofs

Accessories:

- 1** MONT-FIS-SB-390-S DIBt

EAP-SPAR-15-125



EN 795 A

DIBt

 SET ARTICLE

SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

detachable, rotating anchorage eye

- Substructure: Receptacle sleeve EAP-LOCK-11
- Material: stainless steel, aluminium, brass

➔ Increased safety thanks to innovative locking system

EAP-LOCK-13



CENT/TS 16415

EN 795 B

DIBt



RECEPTACLE SLEEVE

for EAP-Lock-13

- Thread: M22
- Drill hole: Ø 24 mm (drilling depth at least 110 mm)
- Accessories: 2x caps in red and white
- Material: stainless steel 304
- Length: 100 mm/150 mm/200 mm/300 mm/400 mm/500 mm

➔ Also suitable for weathering-protected outdoor area.

EAP-LOCK-11-100
EAP-LOCK-11-150
EAP-LOCK-11-200
EAP-LOCK-11-300
EAP-LOCK-11-400
EAP-LOCK-11-500

V2A

EN 795 B

DIBt

Accessories:

1 MONT-FIS-SB-390-S

2 EAP-LOCK-12-R/W



SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Concrete – C20/25



SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-104-A4 ☐ V4A ☐ DIBt
- 2 BEF-111
- 3 ADHESIVE ANCHOR

AIO-STA-10-400
AIO-STA-10-600
AIO-STA-10-800

SET
EUE-101-STA-10-400
EUE-101-STA-10-600
EUE-101-STA-10-800



CENT/TS 16415

EN 795 A

DIBt



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Inclination: 68°
- Material: galvanised steel
- Post heights: 340 mm/470 mm

Accessories:

- 1 BEF-104-A4 ☐ V4A ☐ DIBt
- 2 BEF-111
- 3 ADHESIVE ANCHOR

AIO-STA-11-340
AIO-STA-11-470



CENT/TS 16415

EN 795 A

DIBt



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-102
- 2 BEF-104-A4 ☐ V4A ☐ DIBt
- 3 ADHESIVE ANCHOR

AIO-STA-12-400
AIO-STA-12-600
AIO-STA-12-800



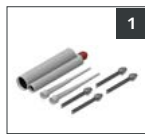
CENT/TS 16415

EN 795 A

DIBt

☐ SET ARTICLE

SYSTEM POSTS



END/CORNER POST

with side base plate in the AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 192 x 8 mm
- Material: galvanised steel
- Post heights: 200 mm/500 mm

Accessories:

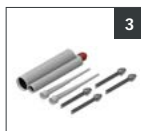
- 1 ADHESIVE ANCHOR

AIO-STA-16-200
AIO-STA-16-500



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-103
- 2 BEF-104-A4 V4A
- 3 ADHESIVE ANCHOR

EAP-QUAD-11-400
EAP-QUAD-11-600

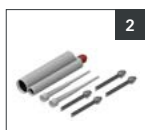
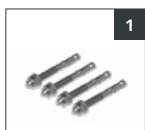
SET

ZST-101-QUAD-11-400
ZST-101-QUAD-11-600



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 212 x 212 x 5 mm
- Packaging unit: 1 unit/10 units
- Material: coated steel RAL 7004, stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-104 V4A
- 2 ADHESIVE ANCHOR
- 3 BEF-111

EAP-QUAD-13-400
EAP-QUAD-13-600



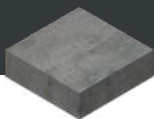
CENT/TS 16415

EN 795 A

SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Concrete – C20/25



SYSTEM POSTS



INTERMEDIATE POST

- Post of stainless steel with rotating anchorage eye
- Diameter: Ø 16 mm
 - Drill hole: Ø 18 mm (drilling depth at least 120 mm)
 - Material: stainless steel 304
 - Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-110
2 MONT-FIS-SB-390-S

EAP-POINT-13-400
EAP-POINT-13-600



CENT/TS 16415
EN 795 A



INTERMEDIATE POST

- Post of stainless steel with rotating anchorage eye
- Diameter: Ø 16 mm
 - Drill hole: Ø 18 mm (drilling depth at least 100 mm)
 - Material: stainless steel 304
 - Post heights: 400 mm/600 mm

Accessories:

- 1 MONT-FIS-SB-390-S

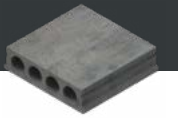
EAP-POINT-15-400
EAP-POINT-15-600



CENT/TS 16415
EN 795 A
DIBt

SET ARTICLE

Hollow concrete slab



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

1 BEF-103

EAP-QUAD-11-400
EAP-QUAD-11-600

SET

ZST-102-QUAD-11-400
ZST-102-QUAD-11-600



CENT/TS 16415

EN 795 A

SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

1 BEF-107

AIO-STA-12-400
AIO-STA-12-600
AIO-STA-12-800

SET

EUE-102-STA-12-400
EUE-102-STA-12-600
EUE-102-STA-12-800



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

1 BEF-103

EAP-QUAD-11-400
EAP-QUAD-11-600

SET

ZST-101-QUAD-11-400
ZST-101-QUAD-11-600



CENT/TS 16415

EN 795 A

SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Solid wood



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Standard post with rotating anchorage eye

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel, stainless steel 304
- Wooden rafter min. 16 x 16 cm
- Post heights: 400 mm/600 mm

Accessories:

1 BEF-201

EAP-STABIL-10-400
EAP-STABIL-10-600

SET
EAP-201-STA-10-400
EAP-201-STA-10-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Solid wood ceiling min. 80 mm
- Post heights: 400 mm/600 mm

Accessories:

1 BEF-209

EAP-QUAD-11-400
EAP-QUAD-11-600

SET
EAP-201-QUAD-11-400
EAP-201-QUAD-11-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Pipe diameter: Ø 18 mm
- Drill hole: Ø 18 mm (drilling depth at least 125 mm)
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

EAP-POINT-11-400
EAP-POINT-11-600



CENT/TS 16415

EN 795 A

SET ARTICLE

SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT with rotating anchorage eye

- Usable thread length:
200/300/400/500 mm
- Clamping area: Usable
thread length less 100 mm
- Thread: M16
- Drill hole: Ø 18 mm (drilling depth at least 125 mm)
- Material: stainless steel 304

⇒ Not suitable for installation on flat roofs

Accessories:

- 1 Counters

EAP-SPAR-11-200
EAP-SPAR-11-500



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

- detachable, rotating anchorage eye
- Substructure: Receptacle sleeve EAP-LOCK-11
- Material: stainless steel, aluminium, brass

⇒ Increased safety thanks to innovative locking system

EAP-LOCK-13



CENT/TS 16415

EN 795 B

DIBt



RECEPTACLE SLEEVE for EAP-Lock-13

- Thread: M22
- Drill hole: Ø 24 mm (drilling depth at least 110 mm)
- Accessories: 2x caps in red and white
- Material: stainless steel 304
- Length: 100 mm/150 mm/200 mm/300 mm/400 mm/500 mm

⇒ Also suitable for weathering-protected outdoor area.

Accessories:

- 1 Counters
- 2 EAP-LOCK-12-R/W

EAP-LOCK-11-100
EAP-LOCK-11-150
EAP-LOCK-11-200
EAP-LOCK-11-300
EAP-LOCK-11-400
EAP-LOCK-11-500



EN 795 B

DIBt

SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Solid wood



SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel
- Wooden rafter min. 16 x 16 cm
- Post heights: 400 mm/600 mm/800 mm

Accessories:

1 BEF-201

AIO-STA-10-400
AIO-STA-10-600
AIO-STA-10-800

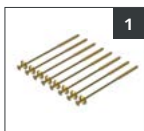
SET

EUE-201-STA-10-400
EUE-201-STA-10-600
EUE-201-STA-10-800



CENT/TS 16415

EN 795 A



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Inclination: 68°
- Material: galvanised steel
- Post heights: 340 mm/470 mm
- Wooden rafter at least 16 x 16 cm

Accessories:

1 BEF-201

AIO-STA-11-340
AIO-STA-11-470



CENT/TS 16415

EN 795 A



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- Solid wood ceiling min. 80 mm
- Post heights: 400 mm/600 mm/800 mm

Accessories:

1 2x BEF-209

AIO-STA-12-400
AIO-STA-12-600
AIO-STA-12-800

SET

EUE-201-STA-12-400
EUE-201-STA-12-600
EUE-201-STA-12-800



CENT/TS 16415

EN 795 A

SET ARTICLE

SYSTEM POSTS



END/CORNER POST

with side base plate in the AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 192 x 8 mm
- Material: galvanised steel
- Post heights: 200 mm/500 mm

Accessories:

- 1** Counters

AIO-STA-16-200
AIO-STA-16-500



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- stainless steel 304
- Solid wood ceiling min. 80 mm
- Post heights: 400 mm/600 mm

Accessories:

- 1** BEF-209

EAP-QUAD-11-400
EAP-QUAD-11-600

SET

ZST-201-QUAD-11-400
ZST-201-QUAD-11-600



CENT/TS 16415

EN 795 A

 SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Wood – lightweight roof | OSB



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- For lightweight roof sandwich (supporting wood at least 8 x 10 cm)
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-205 (lightweight roof sandwich)
- 2 BEF-307 (for OSB 18-32 mm)

EAP-QUAD-11-400
EAP-QUAD-11-600

SET
EAP-202-1-QUAD-11-400
EAP-202-1-QUAD-11-600



CENT/TS 16415

EN 795 A

SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- For OSB (min. 22 mm)
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-210

AIO-STA-12-400
AIO-STA-12-600
AIO-STA-12-800

SET
EUE-202-1-STA-12-400
EUE-202-1-STA-12-600
EUE-202-1-STA-12-800



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- For lightweight roof sandwich (supporting wood at least 8 x 10 cm)
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-205 (lightweight roof sandwich)
- 2 BEF-307 (for OSB 18-32 mm)

EAP-QUAD-11-400
EAP-QUAD-11-600

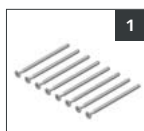
SET
ZST-202-1-QUAD-11-400
ZST-202-1-QUAD-11-600



CENT/TS 16415

EN 795 A

SET ARTICLE



BASE PLATE FOR END/CORNER AND INTERMEDIATE POST

in the AIO lifeline system for lightweight wooden construction

- Base plate dimensions: 178 x 140 x 40 mm
- Material: stainless steel 304
- For lightweight roof sandwich (supporting wood at least 14 x 16 cm)

Accessories:

- 1 BEF-207

AIO-BKS-GP-01



CENT/TS 16415

EN 795 A



STOP SHAFT FOR END/CORNER AND INTERMEDIATE POST

in the AIO lifeline system for lightweight wooden construction

- Substructure: base plate AIO-BKS-GP-01
- Material: stainless steel 304
- Diameter: Ø 25 mm

➔ Optional use as a single anchor point in conjunction with EAP-SPAR-10-25

Accessories:

- 1 AIO-BKS-GP-01

AIO-BKS-AW-01-300



CENT/TS 16415

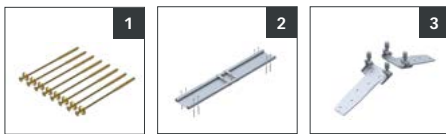
EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Wood – pitched roof | rough formwork



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Standard post with rotating anchorage eye

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel/stainless steel 304
- Post heights: 400 mm/600 mm
- Wooden rafter (at least 16 x 16 cm)

Accessories:

- 1 BEF-210
- 2 BEF-203
- 3 BEF-206

EAP-STABIL-10-400
EAP-STABIL-10-600



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- For rough formwork (at least 80 x 24 mm)
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-208

EAP-QUAD-11-400
EAP-QUAD-11-600

SET ZST-203-QUAD-11-400
ZST-203-QUAD-11-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

For pitched roofs

- Cable diameter: Ø 5 mm, stainless steel 304
- Sling length: 400 mm
- Packaging unit: 1 unit/10 units
- Material: galvanised steel, stainless steel 304
- For pitched roof (supporting structure)
- Minimum penetration depth into the statically load-bearing construction: 100 mm or 80 mm

Accessories:

- 1 2x HBS-08-180-T40-VZ

EAP-SLING-10

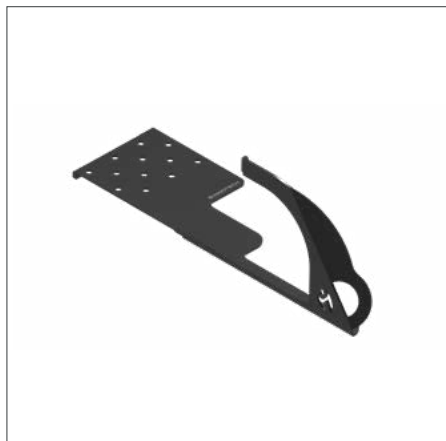
SET EAP-203-SLING-10



EN 795 A

SET ARTICLE

SINGLE ANCHOR POINTS



SAFETY ROOF HOOK

Quick installation hook

- Substructure: wood (at least 8/8 cm)
- Material: galvanised steel (coated)
- Colours: grey (RAL 7004), anthracite (RAL 7021), brown (RAL 8017), red (RAL 8004)
- For pitched roof (supporting structure)

➔ Minimum perforation depth into the load-bearing wooden construction 80 mm

SDH-02-ST-1
SDH-02-ST-10
SDH-02-ST-A-1
SDH-02-ST-A-10
SDH-02-ST-B-1
SDH-02-ST-B-10
SDH-02-ST-R-1
SDH-02-ST-R-10



EN 517 B

SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel
- For pitched roof (supporting structure)
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-201
- 2 BEF-203
- 3 BEF-206

AIO-STA-10-400
AIO-STA-10-600
AIO-STA-10-800



CENT/TS 16415

EN 795 A



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Inclination: 68°
- Material: galvanised steel
- For pitched roof (supporting structure)
- Post heights: 340 mm/470 mm
- Wooden rafter (at least 16 x 16 cm)

Accessories:

- 1 BEF-201
- 2 BEF-203
- 3 BEF-206

AIO-STA-11-340
AIO-STA-11-470



CENT/TS 16415

EN 795 A



SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Wood – pitched roof | rough formwork



SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- For rough formwork (at least 80 x 24 mm)
- Post heights: 400 mm/600 mm/800 mm

Accessories:

1 BEF-210



CENT/TS 16415

EN 795 A

AIO-STA-12-400

AIO-STA-12-600

AIO-STA-12-800

SET

EUE-203-STA-12-400

EUE-203-STA-12-600

EUE-203-STA-12-800



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- For rough formwork (at least 80 x 24 mm)
- Post heights: 400 mm/600 mm/800 mm

Accessories:

1 BEF-208



CENT/TS 16415

EN 795 A

EAP-QUAD-11-400

EAP-QUAD-11-600

SET

ZST-203-QUAD-11-400

ZST-203-QUAD-11-600

SET ARTICLE

Trapezoidal supporting sheet



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Standard post with rotating anchorage eye

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel/stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-303 + BEF-303-1
- 2 BEF-303 + BEF-303-3

EAP-STABIL-10-400
EAP-STABIL-10-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-307 V2A
- 2 BEF-307 + BEF-307-3 V2A

EAP-QUAD-11-400
EAP-QUAD-11-600

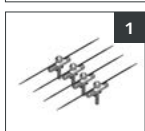
SET

EAP-301-QUAD-11-400
EAP-301-QUAD-11-600



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 212 x 212 x 5 mm
- Packaging unit: 1 unit/10 units
- Material: coated steel RAL 7004, stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-307 V2A DIBt
- 2 BEF-307 + BEF-307-1 V2A DIBt

EAP-QUAD-13-400
EAP-QUAD-13-600



CENT/TS 16415

EN 795 A

DIBt

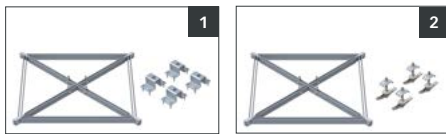
SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Trapezoidal supporting sheet



SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-303 + BEF-303-1
- 2 BEF-303 + BEF-303-3

AIO-STA-10-400
AIO-STA-10-600
AIO-STA-10-800



CENT/TS 16415

EN 795 A



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-307 ☐ V2A + BEF-307-1
- 2 BEF-303 + BEF-303-3
- 2 BEF-303 + BEF-303-1

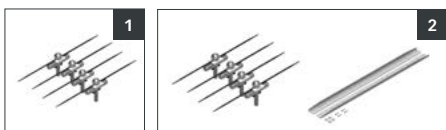
AIO-STA-12-400
AIO-STA-12-600
AIO-STA-12-800

SET
EUE-301-STA-12-400
EUE-301-STA-12-600
EUE-301-STA-12-800



CENT/TS 16415

EN 795 A



END/CORNER POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 212 x 212 x 5 mm
- Material: coated steel RAL 7004, stainless steel 304, aluminium
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-307 ☐ V2A ☐ DIBt
- 2 BEF-307 ☐ V2A + BEF-307-1 ☐ DIBt

EAP-QUAD-13-END-400
EAP-QUAD-13-END-600



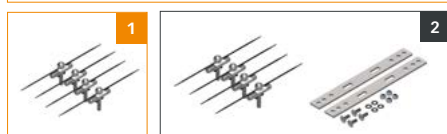
CENT/TS 16415

EN 795 A

DIBT

☐ SET ARTICLE

SYSTEM POSTS



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 235 x 235 x 4 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-307 V2A
- 2 BEF-307 + BEF-307-3 V2A

SET

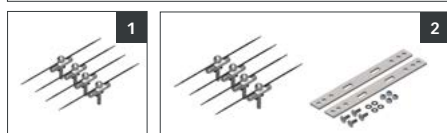
EAP-QUAD-11-400
EAP-QUAD-11-600

ZST-301-QUAD-11-400
ZST-301-QUAD-11-600



CENT/TS 16415

EN 795 A



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Base plate dimensions: 212 x 212 x 5 mm
- Packaging unit: 1 unit/10 units
- Material: coated steel RAL 7004, stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-307 V2A DIBt
- 2 BEF-307 + BEF-307-3 V2A DIBt



CENT/TS 16415

EN 795 A

DIBt

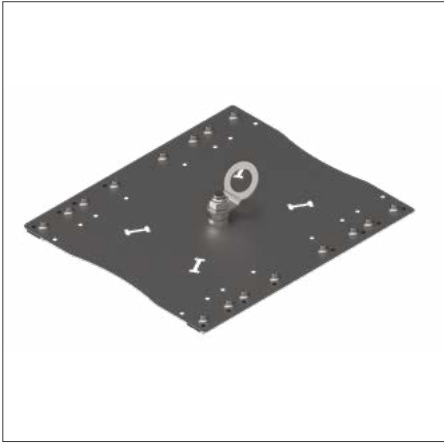
SET ARTICLE

SINGLE ANCHOR POINTS/SYSTEM POSTS

Trapezoidal sheet



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with rotating anchorage eye

- Substructure: Trapezoidal sheet, material: steel, material thickness: min. 0.6 mm
- Width of profile: 250 to 333.3 mm
- Base plate dimensions: 360.5 x 415 x 2 mm
- Material: stainless steel 304

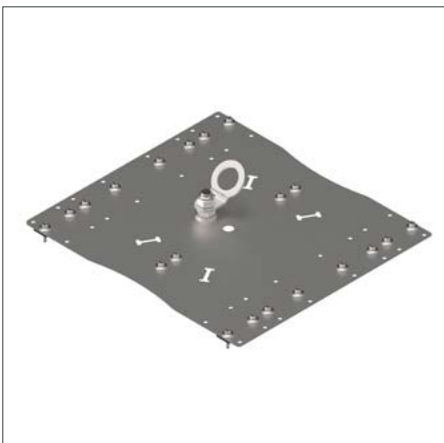
⇒ Fastening material included in scope of delivery

EAP-SAND-10-A2



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

in the AIO lifeline system

- Substructure: Trapezoidal sheet, material: steel, material thickness: min. 0.6 mm
- Width of profile: 277.5 to 414 mm
- Base plate dimensions: 389 x 430 x 2 mm
- Material: stainless steel 304

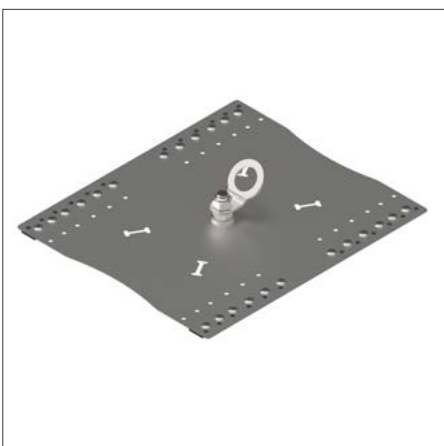
⇒ Fastening material included in scope of delivery

EAP-SAND-11-A2



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

in the AIO lifeline system

- Substructure: Trapezoidal sheet, material: aluminium, material thickness: min. 0.7 mm
- Width of profile: 250 to 333.3 mm
- Base plate dimensions: 360 x 415 x 2 mm
- Material: stainless steel 304

⇒ Fastening material included in scope of delivery

EAP-SAND-12-A2



CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS

**SINGLE ANCHOR POINT**

with rotating anchorage eye

- Substructure: Trapezoidal sheet, material: steel, material thickness: min. 0.6 mm
- Width of profile: 210 to 330 mm
- Base plate dimensions: 300 x 365 x 2 mm
- Material: stainless steel 304

⇒ Fastening material included in scope of delivery

EAP-SAND-13-A2

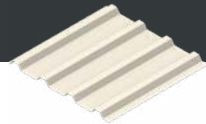


CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Trapezoidal sheet



SYSTEM POSTS



END/CORNER AND INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: Trapezoidal sheet, material: steel, material thickness: min. 0.6 mm
- Width of profile: 250 to 333.3 mm
- Base plate dimensions: 360.5 x 415 x 2 mm
- Material: stainless steel 304



AIO-SAND-10-A2

CENT/TS 16415

EN 795 A

- ⇒ Fastening material included in scope of delivery
Variable height adjustment up to 50 mm (VL-20-50)
when used as intermediate bracket to increase the
spacing between the lifeline system and the roof
cladding



END/CORNER AND INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: Trapezoidal sheet, material: steel, material thickness: min. 0.6 mm
- Width of profile: 277.5 to 414 mm
- Base plate dimensions: 389 x 430 x 2 mm
- Material: stainless steel 304

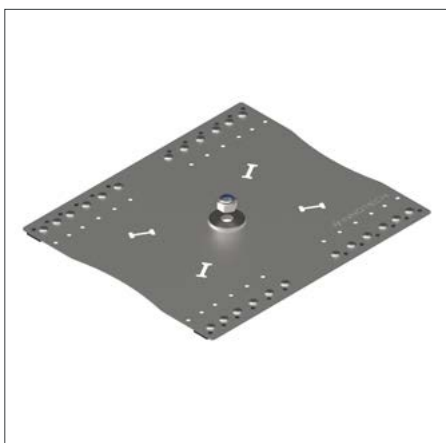


AIO-SAND-11-A2

CENT/TS 16415

EN 795 A

- ⇒ Fastening material included in scope of delivery
Variable height adjustment up to 50 mm (VL-20-50)
when used as intermediate bracket to increase the
spacing between the lifeline system and the roof
cladding



END/CORNER AND INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: Trapezoidal sheet, material: aluminium, material thickness: min. 0.7 mm
- Width of profile: 250 to 333.3 mm
- Base plate dimensions: 360 x 415 x 2 mm
- Material: stainless steel 304



AIO-SAND-12-A2

CENT/TS 16415

EN 795 A

- ⇒ Fastening material included in scope of delivery
Variable height adjustment up to 50 mm (VL-20-50)
when used as intermediate bracket to increase the
spacing between the lifeline system and the roof
cladding

SYSTEM POSTS



END/CORNER AND INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: Trapezoidal sheet,
material: steel, material thickness: min. 0.6 mm
- Width of profile: 210 to 330 mm
- Base plate dimensions: 300 x 365 x 2 mm
- Material: stainless steel 304

- ⇒ Fastening material included in scope of delivery
Variable height adjustment up to 50 mm (VL-20-50)
when used as intermediate bracket to increase the
spacing between the lifeline system and the roof
cladding

AIO-SAND-13-A2



CENT/TS 16415

EN 795 A



END/CORNER POINT in the AIO lifeline system

- Substructure: Trapezoidal sheet,
material: steel, aluminium
Material thickness: min. 0.5 mm
- Width of profile: 475 to 695 mm
- Material: aluminium, stainless steel 304

- ⇒ Fastening material included in scope of delivery

AIO-SYST-20-475-685



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: Trapezoidal sheet,
material: steel, aluminium
Material thickness: min. 0.5 mm
- Width of profile: 475 to 695 mm
- Material: stainless steel 304

- ⇒ Fastening material included in scope of delivery
Distance of cable from the raised bead of the
trapezoidal sheeting is approx. 200 mm

AIO-SYST-20-475-695-SZH

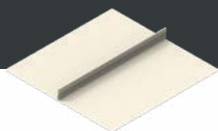


CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Standing seam roof



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with anchorage eye

- Substructure: (double) standing seam roof systems
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm), titanium zinc (min. 0.7 mm)
- Material: aluminium, stainless steel 304

⇒ Various anodised colours possible upon request
Pre-assembled and does not require roof perforation

EAP-INDUSTRY-31



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

with anchorage eye

- Substructure: (double) standing seam roof systems
- Material (material thickness): copper (min. 0.6 mm)
- Material: aluminium(anodised), stainless steel 304

⇒ Pre-assembled and does not require roof perforation

EAP-INDUSTRY-31-CU



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

with rotating anchorage eye

- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm), titanium zinc (min. 0.7 mm), stainless steel (min. 0.5 mm)
- Material: aluminium, stainless steel 304
- Profile width: 410 to 610 mm

⇒ not suitable for copper
Pre-assembled and does not require roof perforation

EAP-SYST-01-410-610



CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with rotating anchorage eye

- Substructure: (double) standing seam roof systems
material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness: min. 0.6 mm
- Profile width: 370 to 640 mm
- Material: stainless steel 304

⇒ Approved for copper
Without roof perforation

EAP-FALZ-15-640



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT

with rotating anchorage eye

- Substructure: (double) standing seam roof systems
material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness: min. 0.6 mm
- Profile width: 520 to 790 mm
- Material: stainless steel 304

⇒ Approved for copper
Without roof perforation

EAP-FALZ-15-790

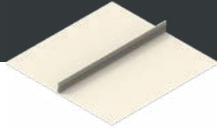


CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Standing seam roof



SYSTEM POSTS



END/CORNER POINT in the AIO lifeline system

- Substructure: (double) standing seam roof systems
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm), titanium zinc (min. 0.7 mm), stainless steel (min. 0.5 mm)
- Profile width: 410 to 610 mm
- Material: aluminium, stainless steel 304

- ⇒ not suitable for copper
- Pre-assembled and does not require roof perforation

AIO-SYST-01-410-610



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: (double) standing seam roof systems
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm), titanium zinc (min. 0.7 mm), stainless steel (min. 0.5 mm)
- Profile width: 410 to 610 mm
- Material: aluminium, stainless steel 304

- ⇒ Must be used in the AIO lifeline system only as an intermediate bracket
- Pre-assembled and does not require roof perforation

AIO-SYST-01-410-610-SZH



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: (double) standing seam roof systems
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm), titanium zinc (min. 0.7 mm)
- Material: aluminium, stainless steel 304

- ⇒ Attention: AIO SZH-10 not included in the scope of delivery
- Pre-assembled and does not require roof perforation

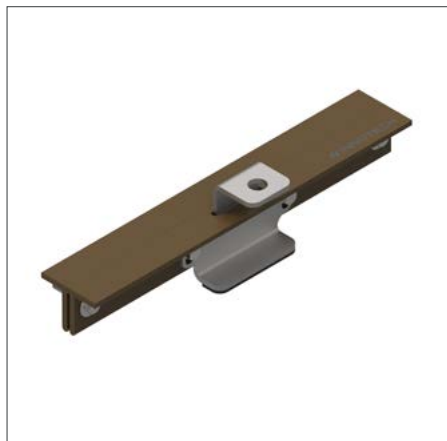
SZH-INDUSTRY-31



CENT/TS 16415

EN 795 A

SYSTEM POSTS



INTERMEDIATE BRACKET

in the AIO lifeline system

- Substructure: (double) standing seam roof systems
- Material (material thickness): copper (min. 0.6 mm)
- Material: aluminium(anodised), stainless steel 304

⇒ Attention: AIO SZH-10 not included in the scope of delivery
Pre-assembled and does not require roof perforation

SZH-INDUSTRY-31-CU



CENT/TS 16415

EN 795 A



END/CORNER POINT

in the AIO lifeline system

- Substructure: Standing seam roof systems
- Material: aluminium, copper, titanium zinc, stainless steel, galvanised, etc.
- Material thickness: min. 0.6 mm
- Profile width: 370 to 640 mm
- Material: stainless steel 304

⇒ Approved for copper
Without roof perforation

AIO-FALZ-45-640



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET

in the AIO lifeline system

- Substructure: (double) standing seam roof systems
- material: aluminium, copper, titanium zinc, stainless steel, galvanised, etc.
- Material thickness: min. 0.6 mm
- Profile width: 370 to 640 mm
- Material: stainless steel 304

⇒ Approved for copper
Without roof perforation
Must be used in the AIO lifeline system only as an intermediate bracket
Variable height extension (VL-20-50) up to 50 mm, in order to increase the separation of the lifeline system from the roof cladding

AIO-FALZ-25-640

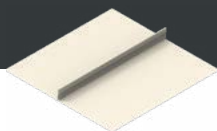


CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Standing seam roof



SINGLE ANCHOR POINTS



END/CORNER POINT in the AIO lifeline system

- Substructure: Standing seam roof systems
Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
Material thickness: min. 0.6 mm
- Profile width: 520 to 790 mm
- Material: stainless steel 304

⇒ Approved for copper
Without roof perforation

AIO-FALZ-45-790



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET in the AIO lifeline system

- Substructure: Standing seam roof systems
Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
Material thickness: min. 0.6 mm
- Profile width: 520 to 790 mm
- Material: stainless steel 304

⇒ Approved for copper
Without roof perforation

Must be used in the AIO lifeline system only as an
intermediate bracket

Variable height extension (VL-20-50) up to 50 mm, in
order to increase the separation of the lifeline system from
the roof cladding

AIO-FALZ-25-790



CENT/TS 16415

EN 795 A

Sliding bow roof



SINGLE ANCHOR POINTS

**SINGLE ANCHOR POINT**

with rotating anchorage eye for round seam roof system

- Substructure: Metal roof system similar to INTERFALZ
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm),
- Profile width: 305 to 333 mm
- Material: aluminium, stainless steel 304

⇒ Various anodised aluminium colours available
Pre-assembled and does not require roof perforation

EAP-SYST-04-305-333



CENT/TS 16415

EN 795 A

**SINGLE ANCHOR POINT**

with rotating anchorage eye for round seam roof system

- Substructure: Metal roof system similar to INTERFALZ
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm), titanium zinc (min. 0.7 mm)
- Profile width: 400 to 500 mm
- Material: aluminium, stainless steel 304

⇒ Various anodised aluminium colours available
Pre-assembled and does not require roof perforation

EAP-SYST-04-400-500



CENT/TS 16415

EN 795 A

**SINGLE ANCHOR POINT**

with rotating anchorage eye for round seam roof system

- Substructure: Metal roof systems
- Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness, min.: 0.6 mm
- Profile width: 370 to 640 mm
- Material: stainless steel 304

⇒ Without roof perforation

EAP-FALZ-15-640



CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Sliding bow roof



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with rotating anchorage eye for round seam roof system

- Substructure: Metal roof systems
Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness, min.: 0.6 mm
- Profile width: 520 to 790 mm
- Material: stainless steel 304

⇒ Without roof perforation

EAP-FALZ-15-790



CENT/TS 16415

EN 795 A



SINGLE ANCHOR POINT, STAINLESS STEEL CLAMP for metal roof systems

- Substructure: Metal roof systems similar to INTERFALZ
Material thickness min.: 1 mm
- Material: stainless steel 304

⇒ Without roof perforation

EAP-INDUSTRY-11



CENT/TS 16415

EN 795 A

SYSTEM POSTS



END/CORNER POINT

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof system similar to INTERFALZ
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)
- Profile width: 305 to 333 mm
- Material: aluminium, stainless steel 304

⇒ Various anodised aluminium colours available
Pre-assembled and does not require roof perforation

AIO-SYST-04-305-333



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof system similar to INTERFALZ
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)
- Profile width: 305 to 333 mm
- Material: aluminium, stainless steel 304

⇒ Attention: AIO SZH-10 not included in the scope of delivery.
Various anodised aluminium colours available
Pre-assembled and does not require roof perforation

AIO-SYST-04-305-333-SZH



CENT/TS 16415

EN 795 A



END/CORNER POINT

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof systems similar to INTERFALZ
- Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)
- Profile width: 400 to 500 mm
- Material: aluminium, stainless steel 304

⇒ Various anodised aluminium colours available
Pre-assembled and does not require roof perforation

AIO-SYST-04-400-500



CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Sliding bow roof



SYSTEM POSTS



INTERMEDIATE BRACKET

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof systems similar to INTERFALZ

Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)

- Profile width: 400 to 500 mm
- Material: aluminium, stainless steel 304

- ⇒ Attention: AIO SZH-10 not included in the scope of delivery.
Various anodised aluminium colours available
Pre-assembled and does not require roof perforation

AIO-SYST-04-400-500-SZH



CENT/TS 16415

EN 795 A



END/CORNER AND INTERMEDIATE BRACKET

in the AIO lifeline system for

ZAMBELLI Evolution RIB ROOF

- Substructure: ZAMBELLI Evolution RIB ROOF metal roof system

Material (material thickness): Aluminium (min. 0.7 mm)

- Profile width: 400 to 500 mm
- Material: aluminium, stainless steel 304

- ⇒ Without roof perforation
When used as an end point, an AIO-SHOCK-10 must be included in the order

AIO-SYST-09-500



CENT/TS 16415

EN 795 A



END/CORNER POINT

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof system

Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.

Material thickness: min. 0.6 mm

- Profile width: 370 to 640 mm
- Material: stainless steel 304

- ⇒ Without roof perforation

AIO-FALZ-45-640



CENT/TS 16415

EN 795 A

SYSTEM POSTS



INTERMEDIATE BRACKET

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof system
- Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness: min. 0.6 mm
- Profile width: 370 to 640 mm
- Material: stainless steel 304

- ⇒ Must be used in the AIO lifeline system only as an intermediate bracket
- Variable height extension (VL-20-50) up to 50 mm, in order to increase the separation of the lifeline system from the roof cladding
- Without roof perforation

AIO-FALZ-25-640



CENT/TS 16415

EN 795 A



END/CORNER POINT

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof system
- Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness: min. 0.6 mm
- Profile width: 520 to 790 mm
- Material: stainless steel 304

- ⇒ Without roof perforation

AIO-FALZ-45-790



CENT/TS 16415

EN 795 A



INTERMEDIATE BRACKET

in the AIO lifeline system for round seam roof systems

- Substructure: Metal roof system
- Material: aluminium, copper, titanium zinc, stainless steel, galvanised steel, etc.
- Material thickness: min. 0.6 mm
- Profile width: 520 to 790 mm
- Material: stainless steel 304

- ⇒ Must be used in the AIO lifeline system only as an intermediate bracket
- Variable height extension (VL-20-50) up to 50 mm, in order to increase the separation of the lifeline system from the roof cladding
- Without roof perforation

AIO-FALZ-25-790

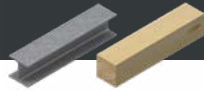


CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Counters & clamps



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

Standard post with rotating anchorage eye

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel/stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 BEF-401-10 DIBt
- 2 BEF-403 DIBt
- 3 BEF-830-03/04/05

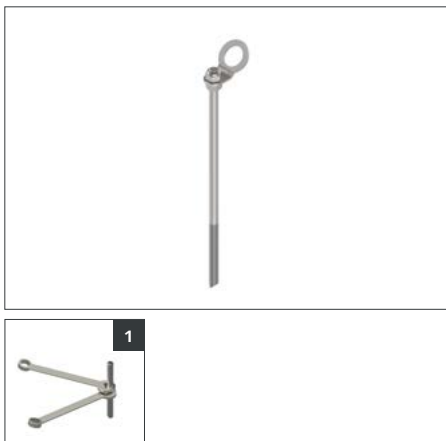
EAP-STABIL-10-400
EAP-STABIL-10-600



CENT/TS 16415

EN 795 A

DIBt



SINGLE ANCHOR POINT

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Drill hole: Ø 18 mm
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 Counters DIBt

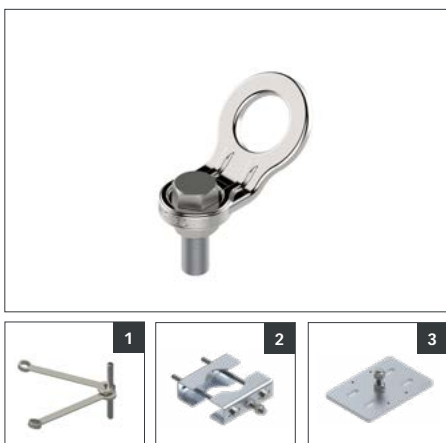
EAP-POINT-15-400
EAP-POINT-15-600



CENT/TS 16415

EN 795 A

DIBt



ABSEILING EYE

Rotating abseiling eye

- Substructure: Steel construction, AIO-STA (up to max. 500 mm length), AIO-SYST, AIO-FALZ-45
- Usable thread length: 29 mm
- Thread: M16 (DIN 933, ISO 4017)
- Material: stainless steel 304

Accessories:

- 1 Counters
- 2 BEF-810/811
- 3 BEF-830-01/02/03/04/05

EAP-ABP-10-30-A4



CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with rotating anchorage (replacement) eye

- Substructure: AIO-BKS, AIO-/EAP-STA(BIL), AIO-/EAP-SYST, AIO-/EAP-FALZ-45/15, AIO-/EAP-SAND, steel constructions
- Usable thread length: 29 mm
- Thread: M16 (DIN 933, ISO 4017)
- Material: stainless steel 304

Accessories:

- 1 Counters **DIBt**
- 2 BEF-810/811
- 3 BEF-830-01/02/03/04/05

➔ Not suitable for AIO-VARIO-45/EAP-VARIO-15, EAP-POINT-11/12

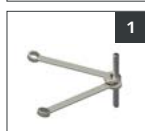
EAP-SPAR-10-25



CENT/TS 16415

EN 795 A

DIBt



SINGLE ANCHOR POINT

with rotating anchorage eye

- Usable thread length: 50 mm
- Thread: M1
- Clamping area: 27 mm
- Drill hole: Ø 17 mm
- Material: Stainless steel V2

Accessories:

- 1 Counters

EAP-SPAR-11-50



CENT/TS 16415

EN 795 A

DIBt



SINGLE ANCHOR POINT

with rotating anchorage eye

- Usable thread length: 200 - 500 mm
- Thread: M16
- Drill hole: Ø 18 mm
- Material: stainless steel 304

➔ Not suitable for installation on flat roofs

Accessories:

- 1 Counters
- 2 BEF-411

EAP-SPAR-11-200
EAP-SPAR-11-300
EAP-SPAR-11-400
EAP-SPAR-11-500

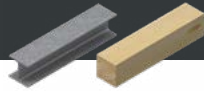


CENT/TS 16415

EN 795 A

SINGLE ANCHOR POINTS/SYSTEM POSTS

Counters & clamps



SINGLE ANCHOR POINTS



SINGLE ANCHOR POINT

with rotating anchorage eye

- Usable thread length: 125 mm
- Thread: M16
- Drill hole: Ø 18 mm
- Material: stainless steel 304

⇒ Not suitable for installation on flat roofs

Accessories:

- 1 Counters **DIBt**

EAP-SPAR-15-125



EN 795 A

DIBt



RECEPTACLE SLEEVE

for EAP-LOCK-13

- Thread: M22, drill hole: Ø 24 mm
- Accessories: 2x caps in red and white
- Material: stainless steel 304 with inner thread M10,
- suitable for the pull-out test
- Length: 100 mm/150 mm/200 mm/300 mm/400 mm/500 mm

⇒ If the outdoor area is exposed to weathering, this product must not be used.

Accessories:

- 1 Counters **DIBt**
2 EAP-LOCK-12-R/W

EAP-LOCK-11-100
EAP-LOCK-11-150
EAP-LOCK-11-200
EAP-LOCK-11-300
EAP-LOCK-11-400
EAP-LOCK-11-500

V2A

EN 795 B

DIBt



SINGLE ANCHOR POINT

detachable, rotating anchorage eye

- Substructure: Receptacle sleeve EAP-LOCK-11
- Material: stainless steel, aluminium, brass

⇒ Increased safety thanks to innovative locking system

EAP-LOCK-13



CENT/TS 16415

EN 795 B

DIBt

SYSTEM POSTS



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-401-10 DIBt
- 2 BEF-403
- 3 BEF-830-01/02/03/04/05

AIO-STA-10-400
AIO-STA-10-600
AIO-STA-10-800



CENT/TS 16415

EN 795 B

DIBt



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 150 x 8 mm
- Inclination: 68°
- Material: galvanised steel
- Post heights: 340 mm/470 mm

Accessories:

- 1 BEF-401-10 DIBt
- 2 BEF-403
- 3 BEF-830-01/02/03/04/05

AIO-STA-11-340
AIO-STA-11-470



CENT/TS 16415

EN 795 A

DIBt



END/CORNER POST

in AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 300 x 300 x 8 mm
- Material: galvanised steel
- Post heights: 400 mm/600 mm/800 mm

Accessories:

- 1 BEF-401-12 DIBt

AIO-STA-12-400
AIO-STA-12-600
AIO-STA-12-800



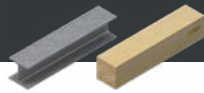
CENT/TS 16415

EN 795 A

DIBt

SINGLE ANCHOR POINTS/SYSTEM POSTS

Counters & clamps



SINGLE ANCHOR POINTS



END/CORNER POST

with side base plate in the AIO lifeline system

- Pipe diameter: Ø 48 mm
- Base plate dimensions: 150 x 192 x 8 mm
- Material: galvanised steel
- Post heights: 200 mm/500 mm

Accessories:

- 1 BEF-401-10
- 2 BEF-403

AIO-STA-16-200
AIO-STA-16-500



CENT/TS 16415

EN 795 A

DIBt



INTERMEDIATE POST

Post of stainless steel with rotating anchorage eye

- Diameter: Ø 16 mm
- Drill hole: Ø 18 mm (drilling depth at least 100 mm)
- Material: stainless steel 304
- Post heights: 400 mm/600 mm

Accessories:

- 1 Counters DIBt

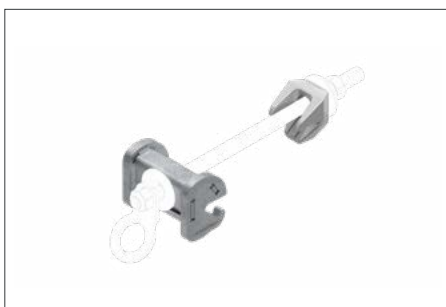
EAP-POINT-15-400
EAP-POINT-15-600



CENT/TS 16415

EN 795 B

DIBt



END/CORNER AND INTERMEDIATE BRACKET

Clamping adapter

- Substructure: steel construction
- Material: galvanised steel
- Flange thickness: max. 16 mm
- Width of steel girder: 55 to 400 mm

Accessories:

- 1 Counters

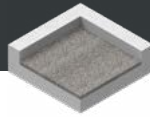
BEF-411



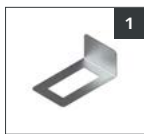
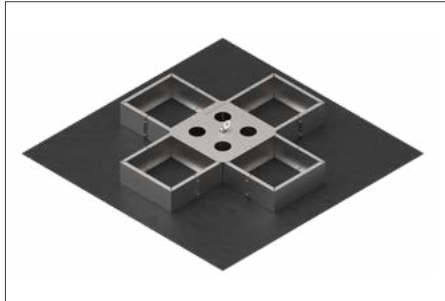
CENT/TS 16415

EN 795 B

Flat roof – superimposed load



SINGLE ANCHOR POINTS

**SINGLE ANCHOR POINT**

with rotating anchorage eye, held by superimposed load

- Dimensions: 1536 x 1536 mm
- Net weight: approx. 21 kg (43 kg total weight including packaging)
- Final weight: approx. 384 - 499 kg
- Filling material: concrete or 12/15x concrete slabs (50 x 50 x 5 cm/49 x 49 x 5 cm) or 16/20x concrete slabs (50 x 50 x 4 cm)
- Material: stainless steel 304

Accessories:

- 1 Barrier-Z31

EAP-VARIO-15



CENT/TS 16415

EN 795 E

SYSTEM POSTS

**END/CORNER AND INTERMEDIATE BRACKET**

in the AIO lifeline system, held by superimposed load

- Dimensions: 1536 x 1536 mm
- Net weight: approx. 21 kg (43 kg total weight including packaging)
- Final weight: approx. 384 - 499 kg
- Filling material: concrete or 12/15x concrete slabs (50 x 50 x 5 cm/49 x 49 x 5 cm) or 16/20x concrete slabs (50 x 50 x 4 cm)
- Material: stainless steel 304

Accessories:

- 1 Barrier-Z31

EAP-VARIO-45



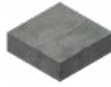
CENT/TS 16415

EN 795 E

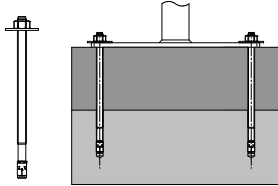
SINGLE ANCHOR POINTS/SYSTEM POSTS

Fastening sets

CONCRETE – C20/25



BEF-102



ANCHOR BOLTS

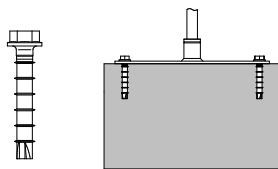
Concrete (at least C20/25) – non-cracked

- Material: galvanised steel
- Contents:
4x FISCHER FBN II 12/120 GS anchor bolts

⇒ Suitable for spaced installation
(maximum thickness of the attached part: 112 mm, e.g. blinding concrete)

Product: AIO-STA-12

BEF-103



SCREW-IN ANCHOR

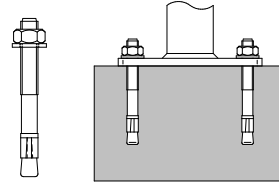
Concrete (min. C20/25)

- Material: galvanised steel
- Contents:
4x HILTI HUS3-H 8 x 55 5 VZ screw-in anchors

Drilling depth for concrete
at least 60 mm (Ø 8 mm)

Product: EAP-QUAD-11

BEF-104-A4



ANCHOR BOLTS

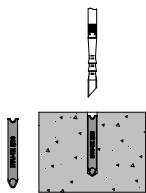
Concrete (at least C20/25) – cracked and non-cracked

- Material: stainless steel V4A
- Contents:
4x FISCHER FAZ II 12/10 A4 anchor bolts

Drilling depth min. 105 mm (Ø 12 mm)

Product: EAP-STABIL-10/EAP-QUAD-11/
EAP-QUAD-13/AIO-STA-10/AIO-STA-11/AIO-STA-12/AIO-STA-16

BEF-110



ADHESIVE ANCHOR

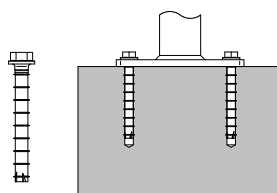
Concrete (min. C20/25) – cracked and non-cracked

- Contents:
1x HILTI HVU-TZ M16 mortar cartridge

Drilling depth 120 mm (Ø 18 mm)

Product: EAP-POINT-13

BEF-111



SCREW-IN ANCHOR

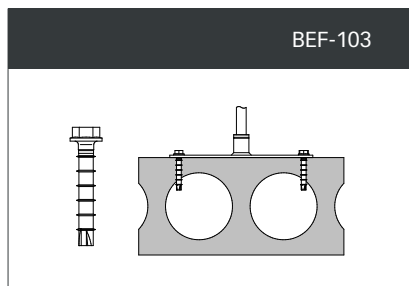
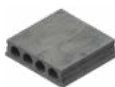
Concrete (min. C20/25)

- Material: galvanised steel
- Contents:
4x HILTI HUS3-H 10 x 90 VZ screw-in anchors

Drilling depth for concrete
min. 95 mm (Ø 10 mm)

Product: EAP-STABIL-10/AIO-STA-10/
AIO-STA-11/EAP-QUAD-13

HOLLOW CONCRETE SLAB



BEF-103

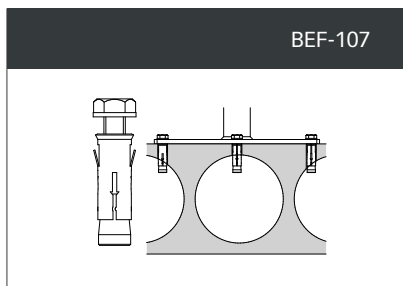
SCREW-IN ANCHOR

Hollow concrete slab (at least C50/60, B4)

- Material: galvanised steel
- Contents:
4x HILTI HUS 8 x 55 screw-in anchors

Hollow concrete slab cross-section
(concrete thickness) at least 25 mm

Product: EAP-QUAD-11



BEF-107

HOLLOW CORE ANCHORS

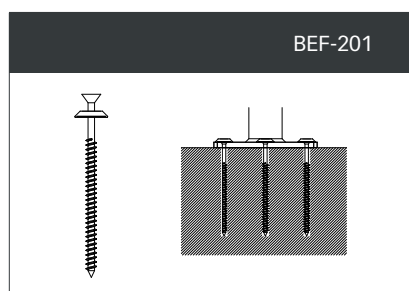
Hollow concrete slab (at least C50/60, B4)

- Material: galvanised steel
- Contents:
8x FISCHER FH-M10 x 52 hollow
core anchors
8x M10 x 60 (DIN 933) hex bolts
8x washers (M10)

Hollow concrete slab cross-section
(concrete thickness) at least 30 mm

Product: AIO-STA-12

SOLID WOOD



BEF-201

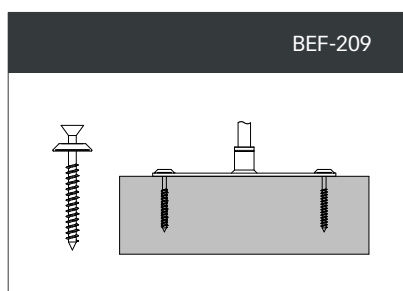
WOOD SCREW

Wood - wooden rafter (min. 16 x 16 cm)

- Material: galvanised steel
- Contents:
8x woodworking screws (8 x 140 mm),
8 x washers (conical)

Minimum perforation depth into
the statically supporting wooden
construction: 100 mm

Product: EAP-STABIL-10/AIO-STA-10/
AIO-STA-11



BEF-209

WOOD SCREW

Wood – solid wood ceiling
(at least 80 mm)

- Material: galvanised steel
- Contents:
4x woodworking screws (8 x 80 mm),
4x washers (conical)

Thickness of the solid wood ceiling
at least 80 mm Use in combination with the
AIO-STA-12 post, 2x BEF-209

Product: EAP-QUAD-11/AIO-STA-12

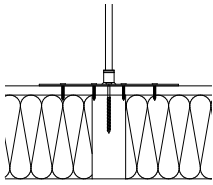
SINGLE ANCHOR POINTS/SYSTEM POSTS

Fastening sets

WOOD – LIGHTWEIGHT ROOF | OSB



BEF-205



WOODWORKING SCREW

Wood – lightweight roof

Supporting wood (at least 8 x 10 cm)

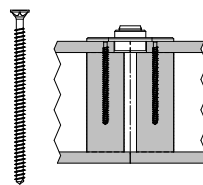
- Material: galvanised steel
- Contents:
 - 4x wood screws (8 x 120 mm)
 - 8x wood screws (6 x 40 mm)

Minimum perforation depth into the statically supporting wooden construction: 95 mm

- ⇒ Wood cross section of the supporting wood panel at least 80 x 100 mm
Wood panel thickness at least 20 mm

Product: EAP-QUAD-11

BEF-207



WOODWORKING SCREW

Wood – lightweight roof

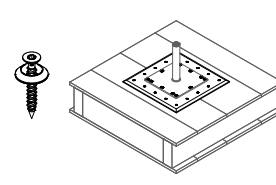
Wooden rafter (at least 14 x 16 cm)

- Material: galvanised steel
- Contents:
 - 8x woodworking screws (8 x 140 mm)

Minimum perforation depth into the statically supporting wooden construction: 120 mm

Product: AIO-BKS-GP-01

BEF-210



WOOD SCREW

Wood – OSB

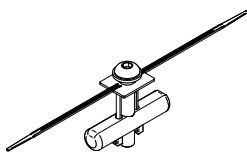
Panel thickness (at least 22 mm)

- Material: wood, galvanised steel
- Contents:
 - 48x woodworking screws (6 x 50 mm)
 - 12x washers (conical)
 - 1x pressure regulation plate (500 x 500 x 15 mm plywood)
 - OSB panel thickness min. 22 mm

⇒ 2x SHOCK required

Product: AIO-STA-12

BEF-307



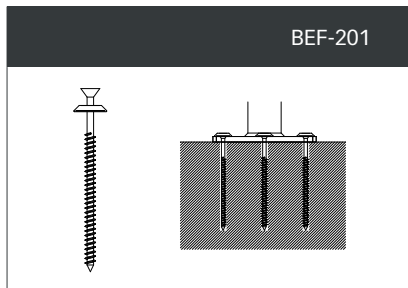
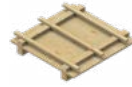
SPECIAL ANCHOR

Wood – OSB

- Material: stainless steel 304, plastic
- Contents:
 - 4x special anchor bolts
- OSB board thickness: 18 to 30 mm

Product: EAP-QUAD-11

WOOD – PITCHED ROOF | ROUGH FORMWORK



BEF-201

WOOD SCREW

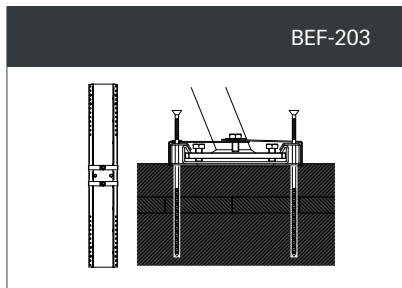
Wood – pitched roof

Wooden rafter (at least 16 x 16 cm)

- Material: galvanised steel
- Contents:
8x woodworking screws (8 x 140 mm),
8x washers (conical)

Minimum perforation depth into
the statically supporting wooden
construction: 100 mm

Product: EAP-STABIL-10/AIO-STA-10/
AIO-STA-11



BEF-203

PITCHED ROOF TRACK

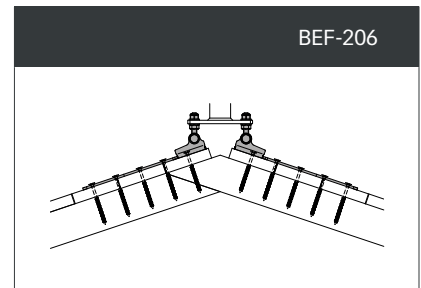
Wood – pitched roof

Wooden rafter (at least 8 x 10 cm)

- Material: galvanised steel
- Contents:
1x track for pitched roof
(1250 x 195 x 35 mm)
8x woodworking screws
(8 x 220 mm)
(incl. fastening accessories for post
installation)

Minimum perforation depth into
the statically supporting wooden
construction: 90 mm

Product: EAP-STABIL-10/AIO-STA-10/
AIO-STA-11



BEF-206

RIDGE ADAPTER

Wood-ridge installation

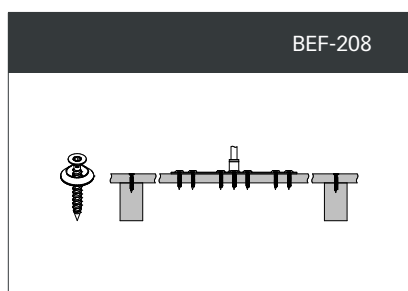
Wooden rafter (at least 8 x 8 cm)

- Material: galvanised steel

Cross-section of the carrying wood
excluding wooden formwork at least
80 x 80 mm, thickness of wooden
formwork 20 mm

Minimum perforation depth into
the statically supporting wooden
construction: 80 mm

Product: EAP-STABIL-10/AIO-STA-10/
AIO-STA-11



BEF-208

WOODWORKING SCREW

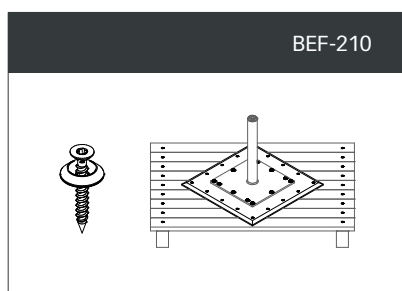
Wood – rough formwork

(at least 24 x 80 mm)

- Material: galvanised steel
- Contents:
25x woodworking screws (6 x 50 mm)
14x washers (conical)

Thickness of the wooden formwork
24 - 30 mm
Width of the wooden formwork
80 - 160 mm

Product: EAP-QUAD-11



BEF-210

WOODWORKING SCREW

Wood – rough formwork

(at least 24 x 80 mm)

- Material: wood, galvanised steel
- Contents:
48x woodworking screws (6 x 50 mm)
12x washers (conical)
1x pressure regulation plate
(500 x 500 x 15 mm plywood)

Thickness of the wooden formwork
24 - 30 mm
Width of the wooden formwork
80 - 160 mm

Product: AIO-STA-12

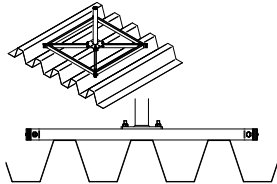
SINGLE ANCHOR POINTS/SYSTEM POSTS

Fastening sets

TRAPEZOIDAL SUPPORTING SHEET



BEF-303



TRAPEZOIDAL SHEETING FRAME

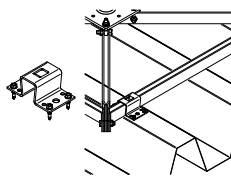
Trapezoidal supporting sheet

- Material: galvanised steel
- Dimensions: 840 x 840 x 40 mm
- Sheet steel thickness: at least 0.6 mm

- ⇒ Various combination options with BEF-303-1 or BEF-303-3
- ⇒ Very varied options for use
- ⇒ Enables optimum load distribution over the trapezoidal sheeting

Product: EAP-STABIL-10/AIO-STA-10/
AIO-STA-12

BEF-303-1



QUICK FASTENING BRACKET

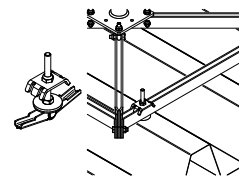
Trapezoidal supporting sheet

- Material: galvanised steel
- Contents:
4x fastening brackets,
16x bore fasteners
- Sheet steel thickness: at least 0.6 mm
- Width of high beading: at least 60 mm

Only in combination with BEF-303.

Product: BEF-303

BEF-303-3



SPECIAL TOGGLE FASTENER

Trapezoidal supporting sheet

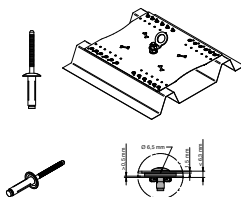
- Material: galvanised steel
- Contents:
4 x special toggle fasteners
- Sheet steel thickness: at least 0.6 mm
- Width of high beading: max. 60 mm

Only in combination with BEF-303.

- ⇒ Free space below the high beading at least 115 mm, bore diameter Ø 28 mm

Product: BEF-303

BEF-306



SEALING RIVET

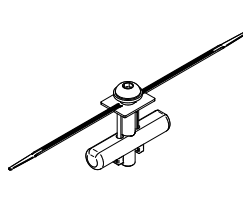
Trapezoidal sheeting
Sheet/sandwich panel

- Material: aluminium
- Packaging unit: 50 pcs./250 pcs.
- Sheet thickness: (aluminium): at least 0.7 mm (excluding coating)

Metal drill Ø 6.5 mm included in delivery

Product: AIO-STA-12

BEF-307



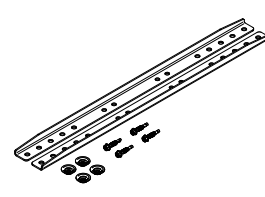
SPECIAL ANCHOR

Trapezoidal supporting sheet

- Material: stainless steel AISI 304, plastic
- Contents:
4x special anchor bolts
- Sheet steel thickness: at least 0.63 mm

Product: EAP-QUAD-11/EAP-QUAD-13

BEF-307-1



STABILISING LEDGE

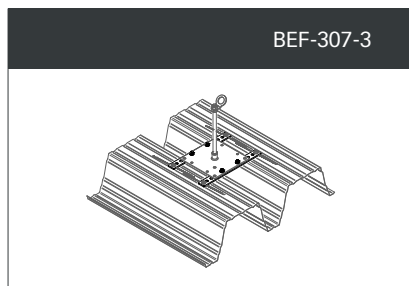
Trapezoidal supporting sheet

- Material: galvanised steel
- Contents:
2x fastening brackets,
4x bore fasteners,
4x centring discs
- Sheet steel thickness: at least 0.63 mm

Only in combination with BEF-307 for the stabilisation of corner and end points

Product: AIO-STA12, EAP-QUAD-13-ENDS

TRAPEZOIDAL SUPPORTING SHEET



BEF-307-3

ADAPTER STRIP

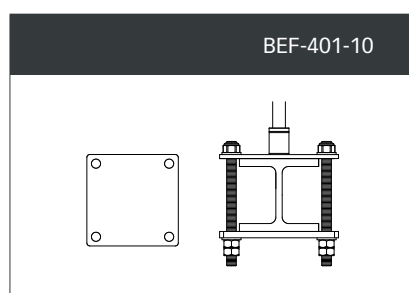
Trapezoidal supporting sheet

- Material: stainless steel 304
- Contents:
 - 2x adapter strips
 - 4x fastening bolts
- Sheet steel thickness: at least 0.75 mm

Only in combination with BEF-307.

Product: EAP-QUAD-11

COUNTERS & CLAMPS



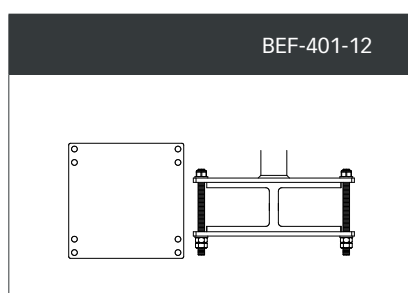
BEF-401-10

COUNTER PLATE (150 X 150 X 8 MM)

Load-bearing construction

- Material: galvanised steel
- Max. width of steel construction: 105 mm

Product: EAP-STABIL-10/AIO-STA-10/AIO-STA-11/AIO-STA-16



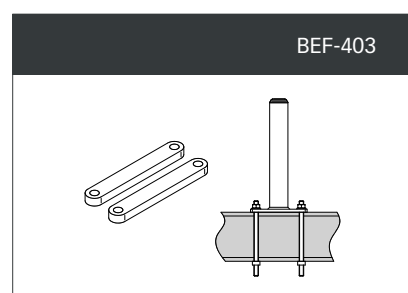
BEF-401-12

COUNTER PLATE (300 X 300 X 8 MM)

Load-bearing construction

- Material: galvanised steel
- Max. width of steel construction: 185 mm or 255 mm

Product: AIO-STA-12



BEF-403

COUNTER SLAT (140 X 20 X 10 MM)

Load-bearing construction

- Material: galvanised steel
- Packaging unit: 2 items
- Max. width of steel construction: 105 mm

Product: EAP-STABIL-10/AIO-STA-10/AIO-STA-11/AIO-STA-16

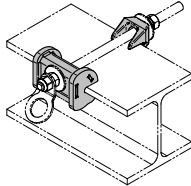
SINGLE ANCHOR POINTS/SYSTEM POSTS

Fastening sets

COUNTERS & CLAMPS



BEF-411



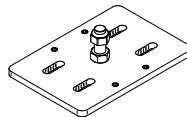
CLAMPING ADAPTER

Steel construction

- Material: galvanised steel
- Flange thickness: max. 16 mm
- Width of steel girder: 55 to 400 mm
- Can also be used in the lifeline and rail system

Product: EAP-SPAR-11-200-500, AIO-EB-10, AIO-SZH-10, TAURUS-BEF-30

BEF-830-01



COUNTER PLATE

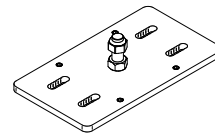
Fastening sets for I-beam structures

- Material: galvanised steel
- Flange width: 80 to 130 mm

Can be used only in combination with BEF-840/841
Available only upon request

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, TAURUS-BEF

BEF-830-02



COUNTER PLATE

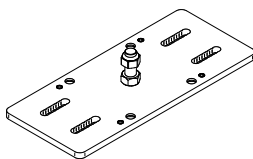
Fastening sets for I-beam structures

- Material: galvanised steel
- Flange width: 130 to 180 mm

Can be used only in combination with BEF-840/841
Available only upon request

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, TAURUS-BEF

BEF-830-03



COUNTER PLATE

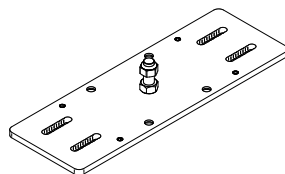
Fastening sets for I-beam structures

- Material: galvanised steel
- Flange width: 180 to 260 mm

Can be used only in combination with BEF-840/841

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, TAURUS-BEF, AIO-STA-10, AIO-STA-11

BEF-830-04



COUNTER PLATE

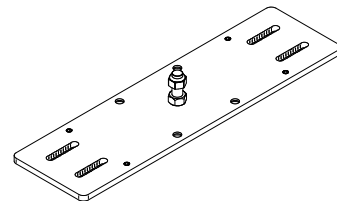
Fastening sets for I-beam structures

- Material: galvanised steel
- Flange width: 260 to 350 mm

Can be used only in combination with BEF-840/841

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, TAURUS-BEF, AIO-STA-10, AIO-STA-11

BEF-830-05



COUNTER PLATE

Fastening sets for I-beam structures

- Material: galvanised steel
- Flange width: 350 to 450 mm

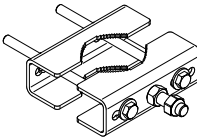
Can be used only in combination with BEF-840/841

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, TAURUS-BEF, AIO-STA-10, AIO-STA-11

COUNTERS & CLAMPS



BEF-810



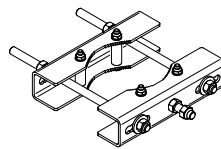
CLAMPING ADAPTER

Fastening sets for pipework structures

- Material: galvanised steel
- Diameter: ø 60 to 120 mm

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, BEF-810-1, TAURUS-BEF

BEF-811



CLAMPING ADAPTER

Fastening sets for pipework structures

- Material: galvanised steel
- Diameter: ø 120 to 220 mm

Product: EAP-SPAR-10-25, EAP-ABP-10-30, AIO-SZH, AIO-EB, AIO-EDLE, BEF-810-1, TAURUS-BEF

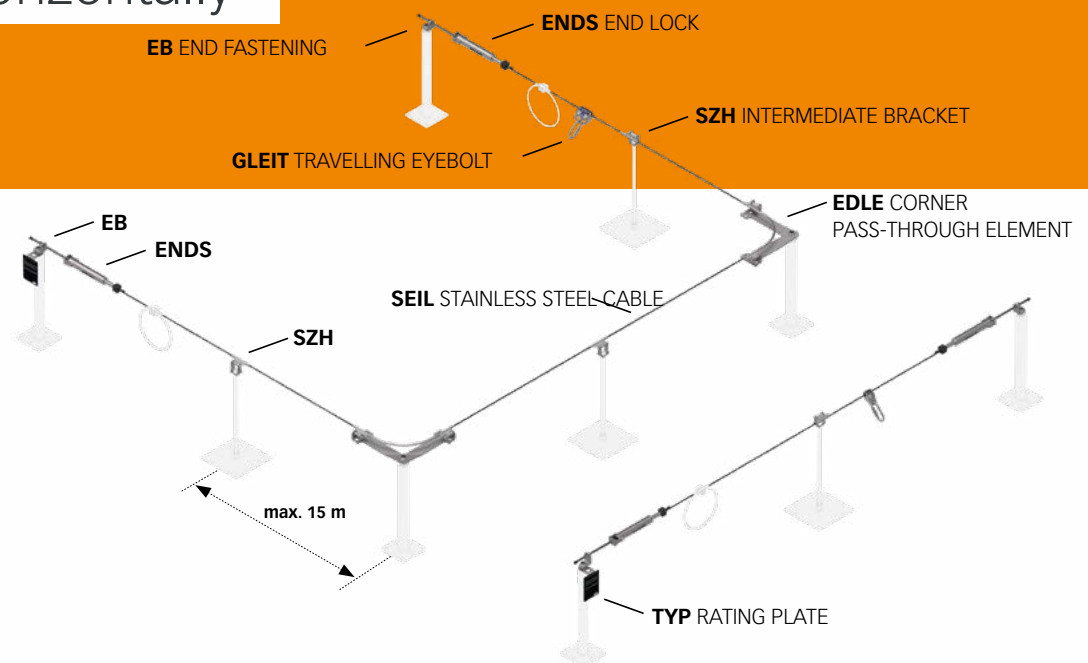
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INNOTECH® Arbeitsschutz GmbH

RESTRAINT, FALL ARREST, AND RESCUE SYSTEM

AIO LIFELINE SYSTEM

Passable horizontally



The ALLinONE lifeline system from INNOTECH® has been developed as a restraint, fall arrest, and rescue system. This well conceived, high-tech concept is ideally suited for complex building and facade structures, and can be optimally fastened to very different substructures.

- For use as a restraint, fall arrest, and rescue system
- Universal components ensure optimum adjustment to complex structural shapes indoors and outdoors
- Optimum fastening options on all substructures
- Minimum cable sag thanks to great base stability and consistent spring pre-tension
- Small number of roof perforations thanks to wide post spacings up to 15 m
- Simple to inspect due to viewing window in the revolutionary end lock, and the indicator clip

The modular system components enable simple and defect-free installation. The innovative design allows the lifeline system to be used on both sides without inconvenient detaching or reconnecting.

- Simple to install because of universally usable system components
- Accessibility from both sides of the lifeline system without detaching or reconnecting
- Can be included in building lightning protection – testing as per EN 62305 (class 1-4)
- Certification to the latest state of the art:

EN 795:2012 TYPE C and E
 CEN/TS 16415:2013

Passable

TYP | RATING PLATES

AIO-TYP-20

RATING PLATE, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system
Material: Stainless steel (AISI 316), plastic

Various fastening options



AIO-TYP-21

RATING PLATE, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system, held by superimposed load
Material: Stainless steel (AISI 316), plastic

Various fastening options



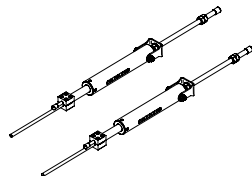
ENDS | END LOCK

AIO-ENDS-10

END LOCK SET, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Complete set for a cable span, with integrated shock absorber and fall indicator clamp

Material: stainless steel (AISI 304), aluminium (anodised)



SEIL | STAINLESS STEEL CABLE

AIO-SEIL-30

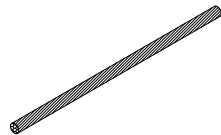
STAINLESS STEEL CABLE (EN 795 C)

Dimensions: Ø 8mm (7 x 7)

Breaking load: 37 kN

Material: Stainless steel (AISI 316)

tested for INNOTECH® lifeline systems



EB | END LOCK FASTENING

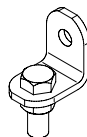
AIO-EB-10

END LOCK FASTENING, SHORT (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Connection: Thread M16

Material: stainless steel (AISI 304)



For bracing the lifeline system using an end lock (AIO-ENDS-10)

END LOCK FASTENING

AIO-EB-15

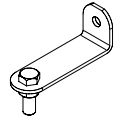
CORNER END LOCK FASTENING, 30° TO 180° (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND,

AIO-VARIO, AIO-SYST, etc.

Connection: Thread M16

Material: stainless steel (AISI 304)



For bracing two lifeline systems (AIO ENDS-10) at an angle between 30° and 180°

SZH | INTERMEDIATE BRACKET

AIO-SZH-10

INTERMEDIATE BRACKET, TRAVERSABLE (EN 795 C)

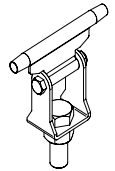
Substructure: AIO-STA, AIO-FALZ, AIO-SAND,

AIO-VARIO, AIO-SYST, etc.

Connection: Thread M16

Function range: 220°

Material: stainless steel (AISI 304)



Can be used on both sides without detaching the travelling eyebolt

EDLE | CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-50

CORNER PASS-THROUGH ELEMENT, TRAVERSABLE (EN 795 C)

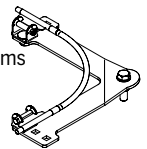
Substructure: AIO-STA, AIO-FALZ, AIO-SAND,

AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Material: stainless steel (AISI 304)



for the attachment of a 90° corner set

Variably adjustable cable lead-in angle thanks to bent base plate

ACCESSORIES:

AIO-EDLE-50 PIPE BEND, 80 TRAVERSABLE (EN 795 C)

AIO-EDLE-50 PIPE BEND, 105 TRAVERSABLE (EN 795 C)

AIO-EDLE-50 PIPE BEND, 120 TRAVERSABLE (EN 795 C)

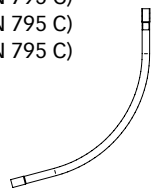
Application: for AIO-EDLE-50

Material: Stainless steel (AISI 316)

For creation of a 80°, 105°, or 120° corner set

Traversable only on outside

AIO-EDLE-50 not included in scope of delivery



CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-11

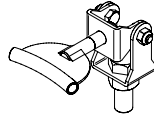
CORNER PASS-THROUGH ELEMENT, 135°, TRAVERSABLE (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Internal corner formation

Connection: Thread M16

Material: stainless steel (AISI 304)



for the attachment of a 135° corner set

AIO-EDLE-16

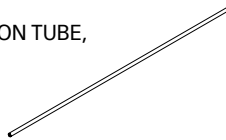
CORNER PASS-THROUGH ELEMENT, EXTENSION TUBE, TRAVERSABLE (EN 795 C)

Application: creation of special corners

Length: 1000/1500/3000 mm

Angle of curve: 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

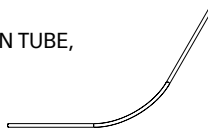
CORNER PASS-THROUGH ELEMENT, EXTENSION TUBE, TRAVERSABLE (EN 795 C)

Application: creation of special corners

Length: 1000 mm

Angle of curve: 90°

Material: Stainless steel (AISI 316)



Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/13/17/18.

AIO-EDLE-17

CORNER PASS-THROUGH ELEMENT, OFFSET ON BOTH SIDES, TRAVERSABLE (EN 795 C)

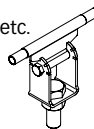
Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Snap-in settings: 0°, 45°, 90°, 135°, 180°

Material: stainless steel (AISI 304)



Can be used only in combination with 2x AIO-EDLE-16 and AIO-EDLE-18
Variably adjustable angle

AIO-EDLE-18

CORNER PASS-THROUGH ELEMENT, OFFSET ON ONE SIDE, TRAVERSABLE (EN 795 C)

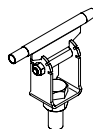
Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Snap-in settings: 0°, 45°, 90°, 135°, 180°

Material: stainless steel (AISI 304)



Can be used only in combination with 2x AIO-EDLE-16 and AIO-EDLE-18
Variably adjustable angle

CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-19

CORNER PASS-THROUGH ELEMENT, VARIABLE UP TO 135°, TRAVERSABLE (EN 795 C)

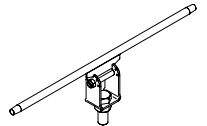
Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Snap-in settings: 0°, 45°, 90°, 135°, 180°

Material: stainless steel (AISI 304)



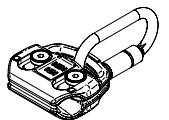
Deflection angles of 0°, 180° to 135° are possible
Suitable bending device or flaring tool required

GLEIT | TRAVELLING EYEBOLT

AIO-GLEIT-10-A4

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT, REMOVABLE, CURVE COMPATIBLE

Material: Stainless steel (AISI 316)

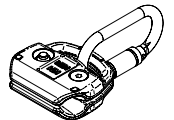


Can be installed and removed at any point in the horizontal lifeline system, suitable for traversing the pass-through elements (intermediate brackets and curve elements)

AIO-GLEIT-13-A4

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT

Material: Stainless steel (AISI 316)

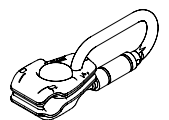


Suitable for traversing the pass-through elements (intermediate brackets and curve elements)

AIO-GLEIT-20-A4

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT

Material: Stainless steel (AISI 316)



Can be installed and removed at any point in the horizontal lifeline system, suitable for traversing the pass-through elements (intermediate brackets and curve elements)

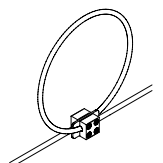
SHOCK | SHOCK ABSORBER

AIO-SHOCK-10

SHOCK ABSORBER

Material: aluminium, anodised

Reduces the end forces in an AIO lifeline system
increase of the cable deflection by approx. 500 mm
For use in the products: AIO-BKS, AIO-VARIO, QUAD-13-END, AIO-SAND-13, AIO-SYST-09!

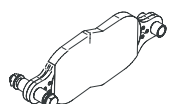


AIO-SHOCK-11

SHOCK ABSORBER

Material: Stainless steel (AISI 316)

Reduces the end forces in an AIO lifeline system
increase of the cable deflection by approx. 1000 mm
For use in the products: AIO-BKS, AIO-VARIO, QUAD-13-END, AIO-SAND-13, AIO-SYST-09!



PERFECT FOR COMPLEX
BUILDINGS AND FACADE STRUCTURES

AIO LIFELINE SYSTEM



ÖAMTC HEADQUARTERS
Vienna, Austria



- For use as a restraint, fall arrest, and rescue system
- Universal components ensure optimum adjustment to complex structural shapes indoors and outdoors
- Optimum fastening options on different substructures
- Accessibility from both sides of the lifeline system without detaching or reconnecting

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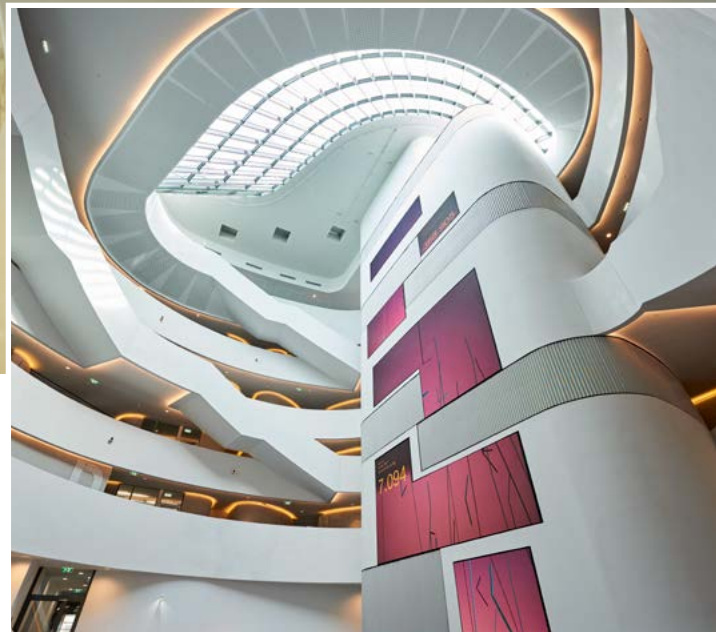
ÖAMTC HEADQUARTERS
Vienna, Austria

128 METRE AIO LIFELINE SYSTEM – MORE THAN 50 ABSEILING POSITIONS

In March 2017 the star-shaped building complex in the 3rd administrative district of Vienna was officially opened: INNOTECH® played a very significant role, with its 636 metres of TAURUS rail solution, 114 metres of BARRIER guardrail system, 128 metres of AIO horizontal lifeline system, and more than 50 abseiling positions.

These very modern fall protection systems ensure optimum safety during cleaning and maintenance work on facades and roof.

AIO lifeline systems with reinforced abseiling eyes were used on the roof surfaces, and these allow flawless cleaning of all the remaining glass facades.



AIO lifeline system/TAURUS rail system

INDIVIDUAL RANGE OF COLOURS
AND MAXIMUM FREEDOM OF MOVEMENT



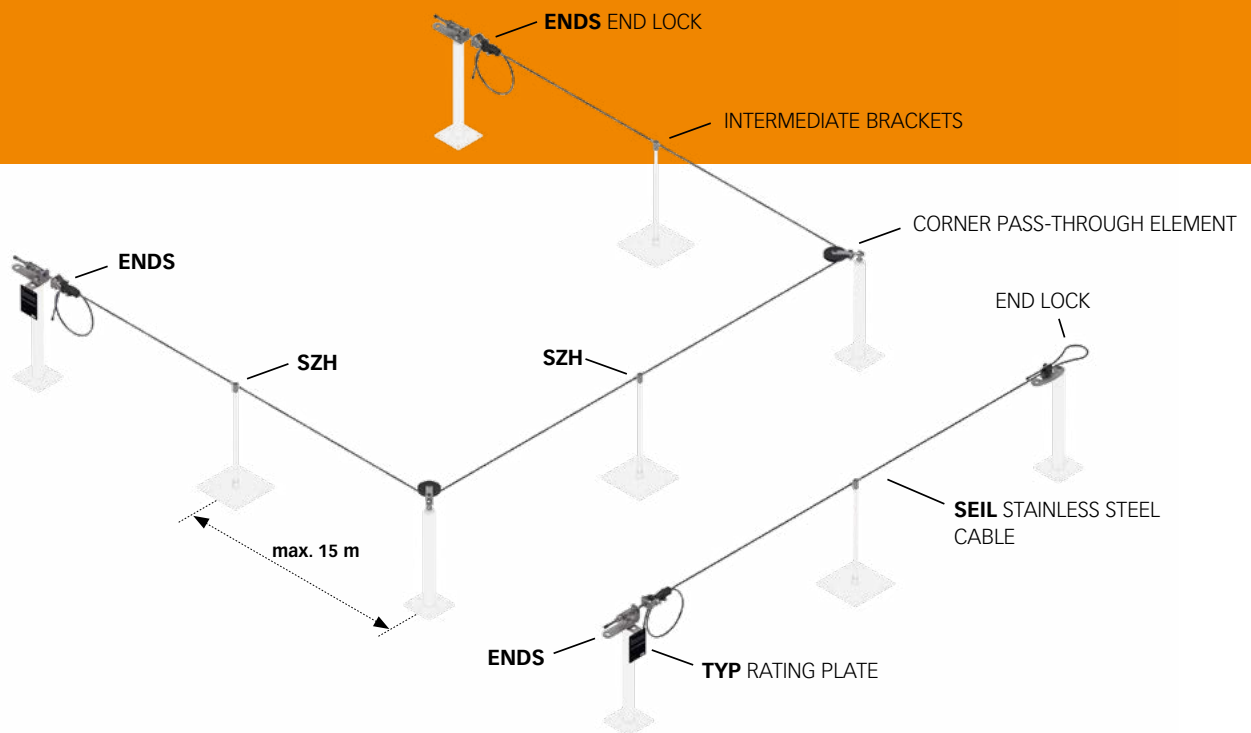
For cleaning the ring facade windows, the TAURUS rails were professionally installed in such a way that on the building shell they are almost invisible to the naked eye. To be able to follow the unique 5-finger form of the building without problems, the rail curvature was specifically designed.



RESTRAINT, FALL ARREST, AND RESCUE SYSTEM

AIO LIFELINE SYSTEM

Non-passable horizontally



The ALLinONE lifeline system from INNOTECH® has been developed as a restraint, fall arrest, and rescue system. This economical lifeline system is ideally suited for complex building and facade structures, and can be optimally

fastened to very different substructures. The modular system components enable simple and defect-free installation.

- For use as restraint, fall arrest, and rescue system
- Universal components ensure optimum adjustment to complex structural shapes indoors and outdoors
- Optimum fastening options on all substructures
- Minimum cable sag thanks to great base stability and consistent spring pre-tension
- Simple product selection and installation by means of combination end lock
- Small number of roof penetrations thanks to wide post spacings up to 15m

- Simple to inspect because of open construction of the revolutionary end lock
- All lifeline system components manufactured from high-quality stainless steel and aluminium
- Simple to install thanks to universally usable system components
- Certification to the latest state of the art:

EN 795:2012 TYPES C and E
 CEN/TS 16415:2013

Non-passable

TYP | RATING PLATE

AIO-TYP-50

RATING PLATE, AIO LIFELINE SYSTEM,
NOT TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system
Material: Stainless steel (AISI 316), plastic

Various fastening options



AIO-TYP-51

RATING PLATE, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system, held by superimposed load
Material: Stainless steel (AISI 316), plastic

Various fastening options

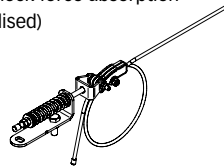


ENDS | END LOCK

AIO-ENDS-50

END LOCK, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)
For a non-traversable cable span with integrated shock force absorption
Material: stainless steel (AISI 316), aluminium (anodised)

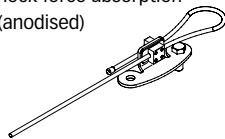
For a cable span with corner set,
a second AIO-ENDS-50
is also required; for a straight cable span,
an AIO-ENDS-51 is necessary.



AIO-ENDS-51

END LOCK, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)
For a non-traversable cable span with integrated shock force absorption
Material: Stainless steel V2A (AISI 316), aluminium (anodised)

Only in combination with AIO-ENDS-50
for a straight cable span

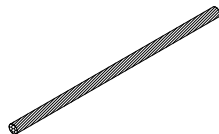


SEIL | STAINLESS STEEL CABLE

AIO-SEIL-30

STAINLESS STEEL CABLE (EN 795 C)
Dimensions: Ø 8mm (7 x 7)
Breaking load: 37 kN
Material: Stainless steel (AISI 316)

tested for INNOTECH® lifeline systems

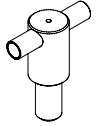


SZH | INTERMEDIATE BRACKET

AIO-SZH-13

INTERMEDIATE BRACKET, NOT TRAVERSABLE (EN 795 C)

Substructure: Substructure: AIO-STA,
AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
Connection: Thread Ø 16mm
Material: stainless steel (AISI 304)

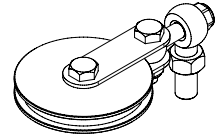


EDLE | CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-14

CORNER PASS-THROUGH ELEMENT BRACKET, NOT TRAVERSABLE
(EN 795 C)

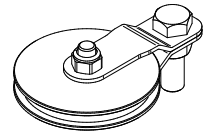
Substructure: AIO-STA, AIO-FALZ, AIO-SAND,
AIO-VARIO, AIO-SYST, etc.
Application: Internal corner formations
Connector: Thread M16
Material: stainless steel (AISI 304)
for attachment of a variable corner set



AIO-EDLE-15

CORNER PASS-THROUGH ELEMENT BRACKET, NOT TRAVERSABLE
(EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND,
AIO-VARIO, AIO-SYST, etc.
Application: Internal corner formations
Connector: Thread M16
Material: stainless steel (AISI 304)



for attachment of a variable corner set

ACCESSORY

Y-STRETCH

DOUBLE-STRAND LANYARD MADE OF STRETCH BELT WITH STRETCH
CONSTRUCTION AND SHOCK ABSORBER

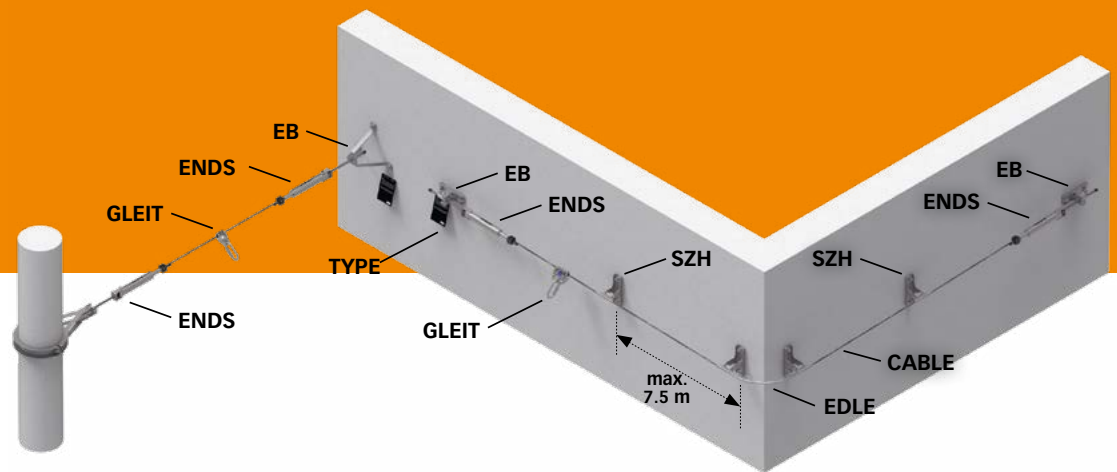
Material: 33mm stretch belt
Plastic: Polyamide, PES polyester
Fittings: aluminium, steel
Colour: orange/black
Weight: 1.68kg
Lengths: 1.05m/1.5m/2m
Temperature: -35°C to 40°C
Standard: EN 354, EN 355



RESTRAINT, FALL ARREST, AND RESCUE SYSTEM

AIO LIFELINE SYSTEM

Passable facade



The ALLinONE lifeline system from INNOTECH® has been developed as a restraint, fall arrest, and rescue system. This well conceived, high-tech concept is ideally suited for complex facade structures, and can be optimally fastened to very different substructures.

- For use as restraint, fall arrest, and rescue system
- Universal components ensure optimum adjustment to complex structural shapes indoors and outdoors
- Optimum fastening options on all substructures
- Minimum cable sag thanks to constant spring pre-tension
- Reduced installation effort due to wide post spacings up to 7.5 m
- Simple to inspect because of viewing window in the revolutionary end lock, and the indicator clip
- All lifeline system components manufactured from high-quality stainless steel

The modular system components enable simple and defect-free installation. The innovative design allows the lifeline system to be used without inconvenient detaching or reconnecting.

- Simple to install thanks to universally usable system components
- Accessibility to the lifeline system without detaching or reconnecting
- Certification to the latest state of the art:

EN 795:2012 TYPES C and E
 CEN/TS 16415:2013

Passable

TYP | RATING PLATE

AIO-TYP-20

RATING PLATE, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system
Material: Stainless steel (AISI 316), plastic

Various fastening options



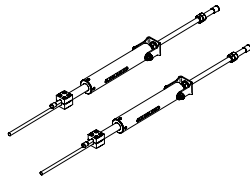
ENDS | END LOCK

AIO-ENDS-10

END LOCK SET, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Complete set for a cable span, with integrated shock absorber and fall indicator clamp

Material: stainless steel (AISI 304), aluminium (anodised)



SEIL | STAINLESS STEEL CABLE

AIO-SEIL-30

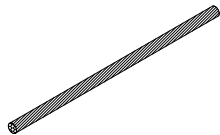
STAINLESS STEEL CABLE (EN 795 C)

Dimensions: Ø 8mm (7 x 7)

Breaking load: 37 kN

Material: Stainless steel (AISI 316)

tested for INNOTECH® lifeline systems



EB | END LOCK FASTENING

AIO-EB-11

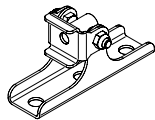
END LOCK FASTENING, FACADE (EN 795 C)

Substructure: facade

Connection: Attachment drilling Ø 17 mm

Hole spacing: 134 mm

Material: stainless steel (AISI 304)



For detaching the lifeline system using an end lock (AIO-ENDS-10)

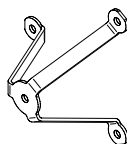
AIO-EB-12

END LOCK FASTENING, FACADE (EN 795 C)

Substructure: facade, concrete

Connection: Ø 13 mm

Material: stainless steel (AISI 304)



for bracing the lifeline system with an end lock (AIO-ENDS-10) 90° to the wall

In the case of weathered facades or thermal insulation, no high-load anchors (BEF-104-A4) may be used. (use 3x adhesive anchor M12)

END LOCK FASTENING

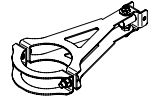
AIO-EB-20-110

END LOCK FASTENING, PIPE FASTENING, TRAVERSABLE

Substructure: Pipe Ø 110mm

Material: stainless steel (AISI 304)

Available on request only!



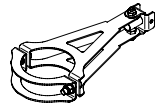
AIO-EB-20-140

END LOCK FASTENING, PIPE FASTENING, TRAVERSABLE

Substructure: Pipe Ø 140mm

Material: stainless steel (AISI 304)

Available upon request



SZH | INTERMEDIATE BRACKET

AIO-SZH-11

INTERMEDIATE BRACKET, FACADE, TRAVERSABLE (EN 795 C)

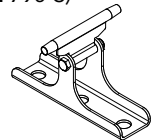
Substructure: facade

Connection: Attachment drilling Ø 17mm

Hole spacing: 134 mm

Function range: 220°

Material: stainless steel (AISI 304)



AIO-SZH-14

INTERMEDIATE BRACKET, FACADE, TRAVERSABLE

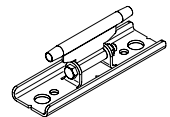
Substructure: facade, concrete

Connection: Attachment drilling Ø 17mm

Hole spacing: 134mm

Function range: 220°

Material: stainless steel (AISI 304)



AIO-SZH-20-050

INTERMEDIATE BRACKET, PIPE FASTENING, TRAVERSABLE

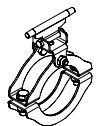
Substructure: Pipe Ø 50mm

Function range: 220°

Material: stainless steel (AISI 304)

Available in various lengths

Available on request only!



AIO-SZH-90-100 WOOD

INTERMEDIATE BRACKET, FACADE, TRAVERSABLE

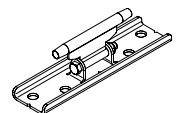
Substructure: facade, wood

Function range: 220°

Material: stainless steel (AISI 304)

Available in various lengths

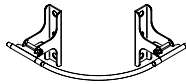
Available on request only!



EDLE | CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-12

CORNER PASS-THROUGH ELEMENT, FACADE, TRAVERSABLE (EN 795 C)
 Substructure: facade
 Application: Inside or outside corner sets and overhead systems
 Connection: Attachment drilling Ø 17 mm.
 Hole spacing: 134 mm
 Snap-in settings: 0°, 45°, 90°, 135°, 180°
 Material: stainless steel (AISI 304)



for the attachment of a 90° corner set

AIO-EDLE-13

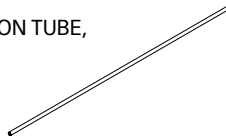
CORNER PASS-THROUGH ELEMENT, FACADE, 90°, TRAVERSABLE (EN 795 C)
 Substructure: facade, concrete, steel
 Application: Inside or outside corner sets and overhead systems
 Connection: Attachment drilling Ø 17 mm.
 Snap-in settings: 0°, 45°, 90°, 135°, 180°
 Material: stainless steel (AISI 304)



For setting up a 90° corner set. Restricted usage as external corners

AIO-EDLE-16

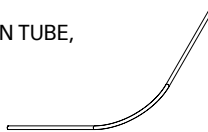
CORNER PASS-THROUGH ELEMENT, EXTENSION TUBE, TRAVERSABLE (EN 795 C)
 Application: creation of special corners
 Length: 1000/1500/3000 mm
 Angle of curve: 0°
 Material: Stainless steel (AISI 316)



Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/13/17/18.

AIO-EDLE-16-90

CORNER PASS-THROUGH ELEMENT, EXTENSION TUBE, TRAVERSABLE (EN 795 C)
 Application: creation of special corners
 Length: 1000 mm
 Angle of curve: 90°
 Material: Stainless steel (AISI 316)

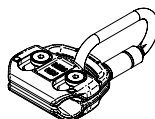


Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/13/17/18.

GLEIT | TRAVELLING EYEBOLT

AIO-GLEIT-10-A4

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT, REMOVABLE, CURVE COMPATIBLE
 Material: Stainless steel (AISI 316)

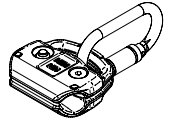


Can be installed and removed at any point in the horizontal lifeline system, suitable for traversing the pass-through elements (intermediate brackets and curved elements)

TRAVELLING EYEBOLT

AIO-GLEIT-13-A4

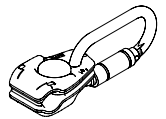
MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT
 Material: Stainless steel (AISI 316)



Suitable for traversing the pass-through elements (intermediate brackets and curved elements)

AIO-GLEIT-20-A4

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT
 Material: Stainless steel (AISI 316)



can be attached and detached at any point in the horizontal lifeline system
 Suitable for traversing the pass-through elements (intermediate brackets and curved elements)

*FOR USE AS A RESTRAINT,
FALL ARREST, AND RESCUE SYSTEM*

*OPTIMUM FASTENING OPTIONS
ON ALL SUBSTRUCTURES*

*ACCESSIBILITY TO THE LIFELINE
SYSTEM WITHOUT DETACHING
OR RECONNECTING*

AIO / LIFELINE SYSTEM / facade Passable

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INNO|school

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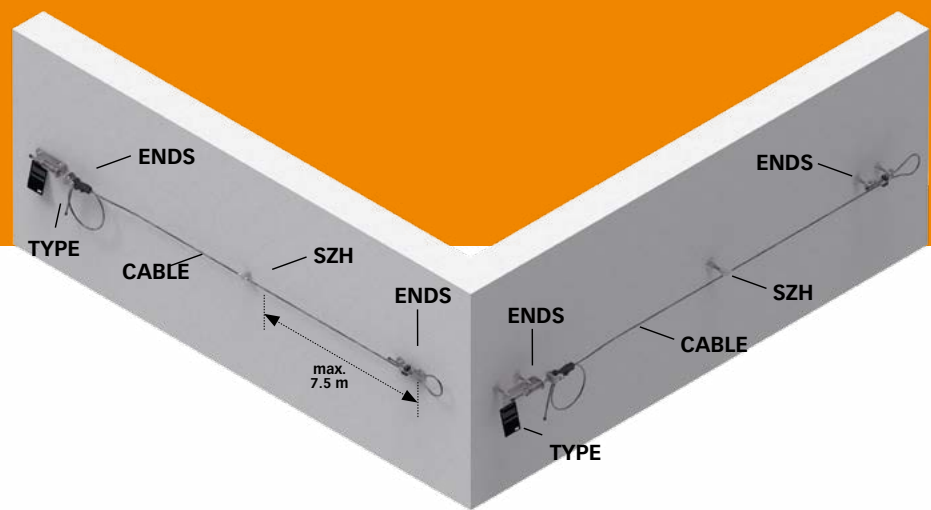
T: +43 7619 22122-181 | E: training@innotech.at
www.innotech.at



RESTRAINT, FALL ARREST, AND RESCUE SYSTEM

AIO LIFELINE SYSTEM

Facade non-passable



The ALLinONE lifeline system from INNOTECH® has been developed as a restraint, fall arrest, and rescue system. This economical lifeline system is ideally suited for facade structures, and can be optimally fastened to very different substructures.

- For use as restraint, fall arrest, and rescue system
- Universal components ensure optimum adjustment to complex structural shapes indoors and outdoors
- Optimum fastening options on all substructures
- Minimum cable sag thanks to great base stability and consistent spring pre-tension
- Simple product selection and installation by means of combination end lock
- Reduced installation effort thanks to wide post spacings up to 7.5 m

The modular system components enable simple and defect-free installation.

- Simple to inspect because of open construction of the revolutionary end lock
- All lifeline system components manufactured from high-quality stainless steel and aluminium
- Simple to install thanks to universally usable system components
- Certification to the latest state of the art:

EN 795:2012 TYPES C and E
 CEN/TS 16415:2013

Non-passable

TYP | RATING PLATE

AIO-TYP-50

RATING PLATE, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system
Material: Stainless steel (AISI 316), plastic

Various fastening options



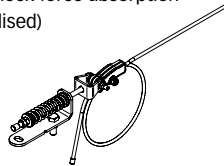
ENDS | END LOCK

AIO-ENDS-50

END LOCK, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

For a non-traversable cable span with integrated shock force absorption
Material: stainless steel (AISI 316), aluminium (anodised)

For a cable span with corner set,
a second AIO-ENDS-50
is also required; for a straight cable span,
an AIO-ENDS-51 is necessary.

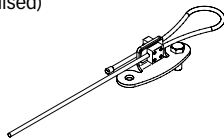


AIO-ENDS-51

END LOCK, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

For a non-traversable cable span with integrated shock force absorption
Material: stainless steel (AISI 316), aluminium (anodised)

Only in combination with AIO-ENDS-50
for a straight cable span



SEIL | STAINLESS STEEL CABLE

AIO-SEIL-30

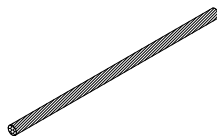
STAINLESS STEEL CABLE (EN 795 C)

Dimensions: Ø 8mm (7 x 7)

Breaking load: 37 kN

Material: Stainless steel (AISI 316)

tested for INNOTECH® lifeline systems



SZH | INTERMEDIATE BRACKET

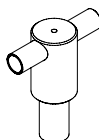
AIO-SZH-13

INTERMEDIATE BRACKET, NOT TRAVERSABLE (EN 795 C)

Substructure: Substructure: AIO-STA,
AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Connection: Thread Ø 16mm

Material: stainless steel (AISI 304)



ACCESSORY

Y-STRETCH

DOUBLE-STRAND LANYARD MADE OF STRETCH BELT WITH
STRETCH CONSTRUCTION AND SHOCK ABSORBER

Material: 33mm stretch belt

Plastic: Polyamide, PES polyester

Fittings: aluminium, steel

Colour: orange/black

Weight: 1.68kg

Lengths: 1.05m/1.5m/2m

Temperature: -35°C to 40°C

Standard: EN 354, EN 355



*FOR USE AS A RESTRAINT,
FALL ARREST, AND RESCUE SYSTEM*

*SIMPLE INSTALLATION THANKS TO
UNIVERSALLY USABLE*

SYSTEM COMPONENTS

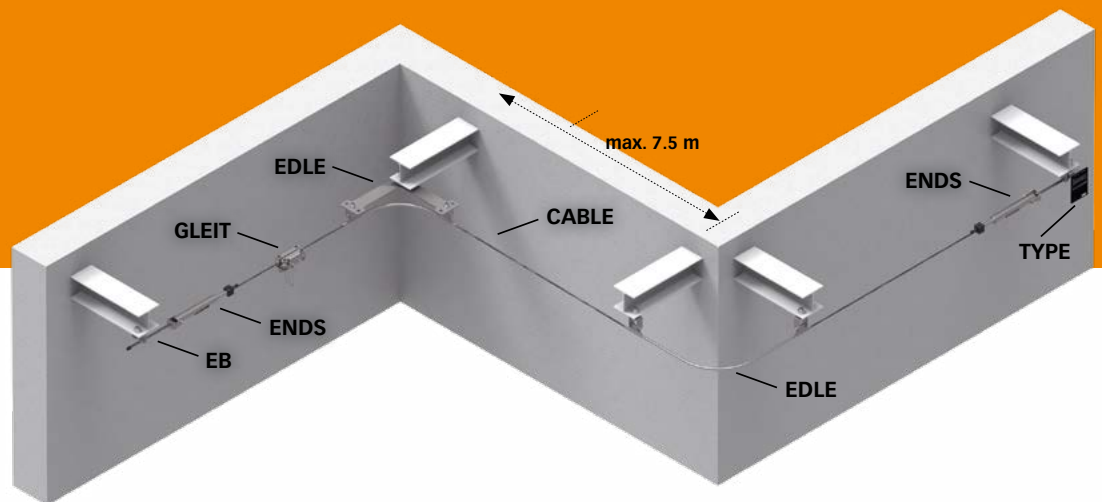
*SIMPLE PRODUCT SELECTION AND
INSTALLATION BY MEANS
OF COMBINATION END LOCK*

AIO / LIFELINE SYSTEM / facade non-passable

RESTRAINT, FALL ARREST, AND RESCUE SYSTEM

AIO LIFELINE SYSTEM

Passable overhead



The ALLinONE lifeline system from INNOTECH® has been developed as a restraint, fall arrest, and rescue system. This well conceived, high-tech concept is ideally suited for complex building and facade structures, and can be optimally fastened to very different substructures.

- For use as restraint, fall arrest, and rescue system
- Universal components ensure optimum adjustment to complex structural shapes indoors and outdoors
- Optimum fastening options on all substructures
- Minimum cable sag thanks to constant spring pre-tension
- Reduced installation effort due to wide post spacings up to 7.5 m
- Simple to inspect because of viewing window in the revolutionary end lock, and the indicator clip
- All lifeline system components manufactured from high-quality stainless steel

The modular system components enable simple and defect-free installation. The innovative design allows the lifeline system to be used without inconvenient detaching or reconnecting.

- Simple to install thanks to universally usable system components
- Accessibility to the lifeline system without detaching or reconnecting
- Certification to the latest state of the art:

EN 795:2012 TYPES C and E
 CEN/TS 16415:2013

Passable

TYP | RATING PLATE

AIO-TYP-20

RATING PLATE, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system
Material: Stainless steel (AISI 316), plastic

Various fastening options

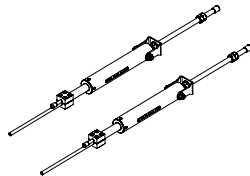


AIO-ENDS-10

END LOCK SET, AIO LIFELINE SYSTEM, TRAVERSABLE (EN 795 C)

Complete set for a cable span, with integrated shock absorber and fall indicator clamp

Material: stainless steel (AISI 304), aluminium (anodised)



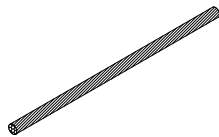
SEIL | STAINLESS STEEL CABLE

AIO-SEIL-30

STAINLESS STEEL CABLE (EN 795 C)

Dimensions: Ø 8mm (7 x 7)
Breaking load: 37 kN
Material: Stainless steel (AISI 316)

tested for INNOTECH® lifeline systems



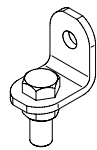
EB | END LOCK FASTENING

AIO-EB-10

END LOCK FASTENING, SHORT (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Connection: Thread M16
Material: stainless steel (AISI 304)

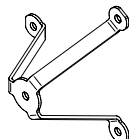


For relaxing the lifeline system using an end lock (AIO-ENDS-10)

AIO-EB-12

END LOCK FASTENING, FACADE (EN 795 C)

Substructure: facade, concrete
Connection: Ø 13 mm
Material: stainless steel (AISI 304)



for bracing the lifeline system with an end lock (AIO-ENDS-10) 90° to the wall

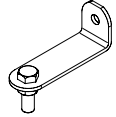
In the case of weathered facades or thermal insulation, no high-load anchors (BEF-104-A4) may be used. (use 3x adhesive anchor M12)

END LOCK FASTENING

AIO-EB-15

CORNER END LOCK FASTENING, 30° TO 180° (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
Connection: Thread M16
Material: stainless steel (AISI 304)



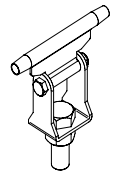
For bracing two lifeline systems (AIO ENDS-10) at an angle between 30° and 180°

SZH | INTERMEDIATE BRACKET

AIO-SZH-10

INTERMEDIATE BRACKET, TRAVERSABLE (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.
Connection: Thread M16
Function range: 220°
Material: stainless steel (AISI 304)

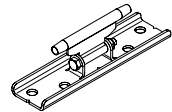


Can be used on both sides without detaching the travelling eyebolt

AIO-SZH-90-100 WOOD

INTERMEDIATE BRACKET, FACADE, TRAVERSABLE

Substructure: facade, wood
Function range: 220°
Material: stainless steel (AISI 304)
Available in various lengths



Available on request only!

EDLE | CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-50

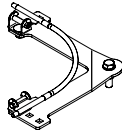
CORNER PASS-THROUGH ELEMENT, TRAVERSABLE (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Material: stainless steel (AISI 304)



for the attachment of a 90° corner set
 Variably adjustable cable lead-in angle thanks to bent base plate

AIO-EDLE-11

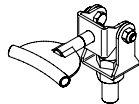
CORNER PASS-THROUGH ELEMENT, 135°, TRAVERSABLE (EN 795 C)

Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Internal corner formations

Connection: Thread M16

Material: stainless steel (AISI 304)



for the attachment of a 135° corner set

AIO-EDLE-16

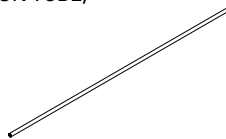
CORNER PASS-THROUGH ELEMENT, EXTENSION TUBE, TRAVERSABLE (EN 795 C)

Application: creation of special corners

Length: 1000/1500/3000 mm

Angle of curve: 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

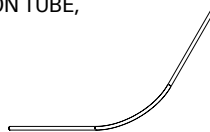
CORNER PASS-THROUGH ELEMENT, EXTENSION TUBE, TRAVERSABLE (EN 795 C)

Application: creation of special corners

Length: 1000 mm

Angle of curve: 90°

Material: Stainless steel (AISI 316)



Suitable bending device or flaring tool required for connecting to AIO-EDLE-12/13/17/18.

AIO-EDLE-17

CORNER PASS-THROUGH ELEMENT, OFFSET ON BOTH SIDES, TRAVERSABLE (EN 795 C)

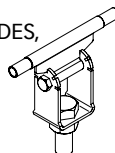
Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Internal or external corner sets and overhead systems

Connection: Thread M16

Snap-in settings: 0°, 45°, 90°, 135°, 180°

Material: stainless steel (AISI 304)



Can only be used in combination with 2x AIO-EDLE-16 and AIO-EDLE-18
 Variably adjustable angle

CORNER PASS-THROUGH ELEMENTS

AIO-EDLE-18

CORNER PASS-THROUGH ELEMENT, OFFSET ON ONE SIDE, TRAVERSABLE (EN 795 C)

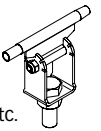
Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Snap-in settings: 0°, 45°, 90°, 135°, 180°

Material: stainless steel (AISI 304)



Can only be used in combination with 2x AIO-EDLE-16 and AIO-EDLE-18
 Variably adjustable angle

AIO-EDLE-19

CORNER PASS-THROUGH ELEMENT, VARIABLE OFFSET UP TO 135°, TRAVERSABLE (EN 795 C)

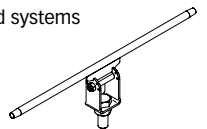
Substructure: AIO-STA, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Application: Inside or outside corner sets and overhead systems

Connection: Thread M16

Snap-in settings: 0°, 45°, 90°, 135°, 180°

Material: stainless steel (AISI 304)



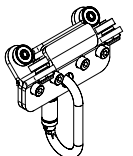
Deflection angles of 0°, 180° to 135° are possible
 Suitable bending device or flaring tool required

AIO-GLEIT-11

MOBILE ANCHORAGE POINT/ROLLER TRAVELLING EYEBOLT

NOT DETACHABLE, NOT CURVE-COMPATIBLE (EN 795 C)

Material: Stainless steel (AISI 304)



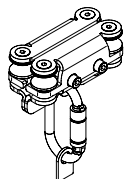
suitable for traversing the pass-through elements in the overhead lifeline system (intermediate brackets)

AIO-GLEIT-12

MOBILE ANCHORAGE POINT/ROLLER TRAVELLING EYEBOLT FOR CURVES

NOT DETACHABLE, CURVE-COMPATIBLE (EN 795 C)

Material: Stainless steel (AISI 304)



suitable for traversing the pass-through elements in the overhead lifeline system (intermediate brackets and curve elements)

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inspection

Planning

Execution

Documentation

Inspection



Automatic reminder

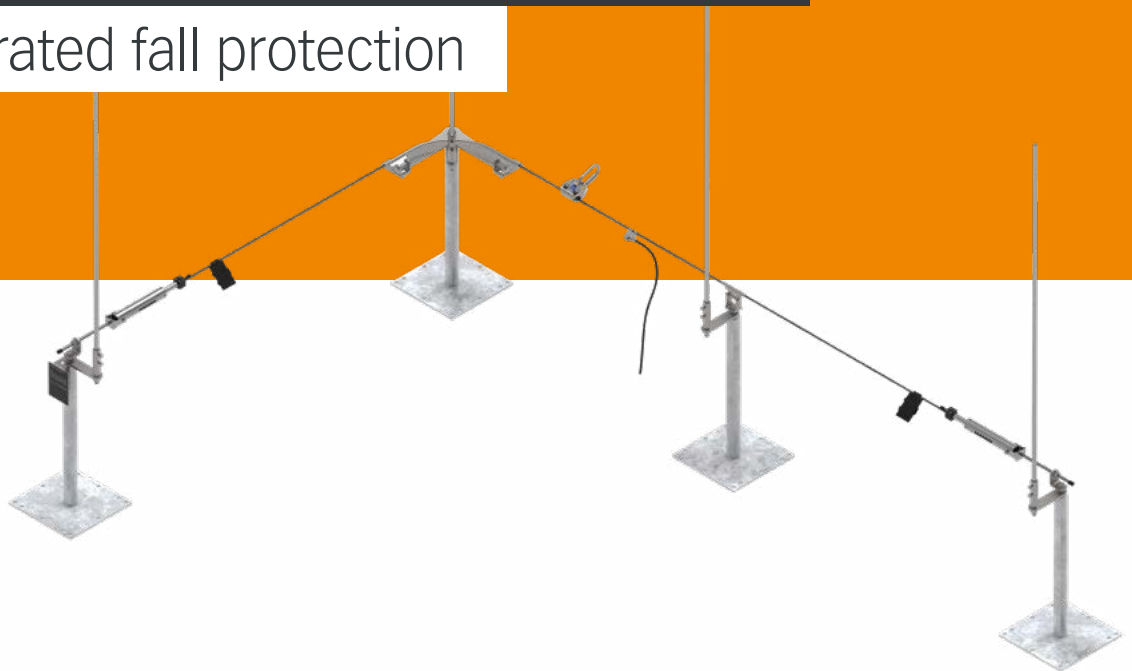
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BIA LIGHTNING PROTECTION

LIGHTNING PROTECTION

with integrated fall protection



In cooperation with the Oö lightning protection company, INNOTECH has developed the new BIA lightning protection system. Through the existing system tests for all lightning protection classes, the components listed fulfil the lightning protection requirements of the European standard "ÖVE/ÖNORM EN 62305

Part 3 Lightning protection - Physical damage to structures and life hazard". Because of the integration of the fall protection into the lightning protection system, the installation time falls significantly, and unnecessary stumbling events are reduced.

The BIA fall and lightning protection system is the only tested system on the market. Combinable with all other components of the AIO lifeline system (EB, SZH, EDLE, GLEIT)

- Short installation time
- Fewer roof perforation
- Reduced number of stumbling events on the roof
- Fewer interfaces on the construction site
- A single maintenance partner/contract
- Tested lightning protection in combination with fall protection
- BIA-AIO-SYSTEMS are tested against lightning current (certificate)
- Cost savings up to 30% in combination
- Certification to the latest state of the art:
ÖVE/ÖNORM EN 62305-3
Lightning protection class 1-4

BIA components

Information about planning and implementation:

The implementation of the BIA products must follow a joint plan (lightning protection in combination with fall protection). This is the only way to ensure that all legal requirements are fulfilled and that the system benefits are realised in full. Installations of fall protection systems must be matched with existing building lightning protection, because incorrect installation can disable the effects of the lightning protection system.

END LOCK

BIA-CONNECT END LOCK SET (795 C)

Material: Stainless steel, aluminium

Complete set for cable span, with integrated lightning strike detector at each end of the cable span, incl. rating plate. Constant spring pre-tensioning, and fall indicator clamp.



STAINLESS STEEL

SEIL-30 STAINLESS STEEL CABLE (795 C)

Dimensions: Ø 8mm (7 x 7)
Breaking load: 37 kn
Material: stainless steel
Lightning current-tested cable for the fall protection system
Tested for BIA-SYSTEM - mandatory!



ASSOCIATED EQUIPMENT

BIA-FAN-SEILKL CABLE CLAMP

Material: stainless steel
Flexible EQUIPOTENTIAL CABLE FOR LIGHTNING PROTECTION for BIA horizontal lifeline system.
8 mm, traversable with travelling eyebolt; lightning current-tested as per OVE/ONORM EN 62305-3



BIA-FAN-FANG LIGHTNING ROD

Length: 2.5/3 m
Material: aluminium



POSTS

BIA-FAN-12 STANDARD POST (795 C)

Substructure: Concrete, hollow concrete slab, steel construction, etc.
Post dimension: Ø 48 mm
Base plate dimensions: 300 x 300 x 8 mm
Post length: 600, 800, or 1000 mm
Material: Steel (galvanised)



BIA-FAN-AUSL IS INCLUDED IN THE DELIVERY
BIA-FAN-FANG and **SZH** ARE NOT INCLUDED IN THE DELIVERY

BIA-AIO-SYST END/CORNER POINT, INTERMEDIATE BRACKET, ETC. (795 C)

Substructure: Standing seam roofs
Material thickness: steel (at least 0.5 mm), titanium zinc (at least 0.7 mm), aluminium (at least 0.7 mm), stainless steel (at least 0.5 mm)
Profile width: 410 to 610 mm
Material: Aluminium/stainless steel



BIA-FAN-AUSL IS INCLUDED IN THE DELIVERY
BIA-FAN-FANG and **SZH** ARE NOT INCLUDED IN THE DELIVERY

BIA-AIO-FALZ END/CORNER POINT, INTERMEDIATE BRACKET, ETC. (795 C)

Substructure: standing seam roof systems
Material thickness: aluminium, copper, titanium zinc, stainless steel, etc. (min. 0.6 mm)
Profile width: 520 to 790 mm
Material: stainless steel

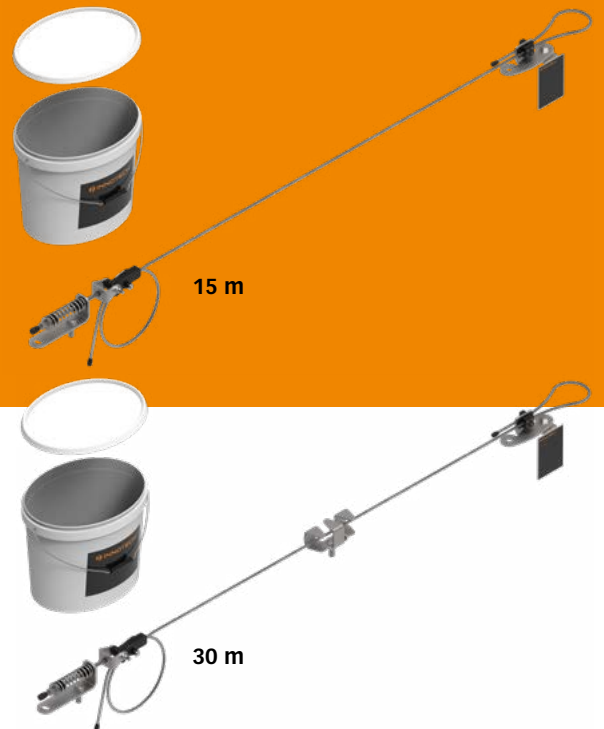


BIA-FAN-AUSL IS INCLUDED IN THE DELIVERY
BIA-FAN-FANG and **SZH** ARE NOT INCLUDED IN THE DELIVERY

PRACTICAL PACKAGING

KIT BOX

Horizontal lifeline system



The pre-assembled horizontal lifeline system KIT BOX, in a practical reusable packaging, is outstandingly suited for rapid, simple, and flexible installation on various substructures.

- Pre-assembled horizontal lifeline system
- Two system lengths (15 m/30 m)
- Simple to install because of standardised system components
- Integrated shock absorber and constant spring pre-tension

Approved for 4 people (including 1 person for provision of first-aid), it is ideal for use on building/construction sites of all types (steel, facades, warehouse and bridge construction, etc.).

- The special shock absorber reduces the forces on the end points to a minimum in the event of a fall
- No training required
- All products in one bucket (easy to transport)
- Certification to the latest state of the art:

EN 795 TYPE C

Horizontal lifeline system

Ideal on all types of construction sites
(steel, facades, halls, bridges, etc.).

Approved for 4 people
(including 1 person for provision of first aid)

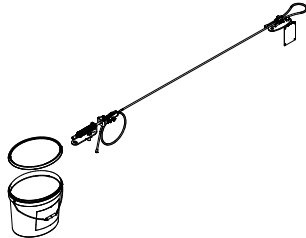
KITBOX | KIT BOX

KIT-BOX-15

PRE-ASSEMBLED HORIZONTAL LIFELINE SYSTEM (EN 795 C)

Material: stainless steel (AISI 304),
aluminium (anodised), plastic
Length: 15 m

Complete set:
1x end lock set
Stainless steel cable

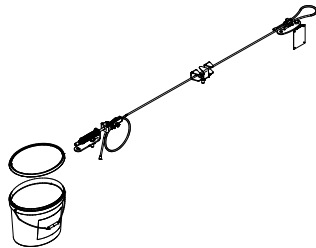


KIT-BOX-30

PRE-ASSEMBLED HORIZONTAL LIFELINE SYSTEM (EN 795 C)

Material: Stainless steel V2A (AISI 304),
aluminium (anodised), plastic
Length: 30 m

Complete set:
1x end lock set
Stainless steel cable
1x LIFELINE KIT SZH-10
(intermediate bracket)



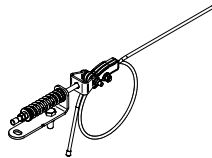
ENDS | END LOCK

END LOCK

PRE-ASSEMBLED (EN 795 C)

For a straight cable span, with integrated
shock force absorption

Material: stainless steel (AISI 304), aluminium (anodised)

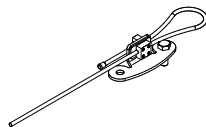


END LOCK

VARIABLE (EN 795 C)

For a straight cable span, with integrated
shock force absorption

Material: stainless steel (AISI 304), aluminium (anodised)

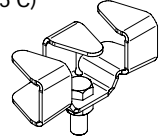


SZH | INTERMEDIATE BRACKET

LIFELINE-KIT-SZH-10

KIT - INTERMEDIATE BRACKET, TRAVERSABLE (EN 795 C)

Material: stainless steel (AISI 304)
Substructure: AIO-STA, AIO-FALZ, AIO-SAND,
AIO-VARIO, AIO-SYST, etc.
Connection: Thread M16



Suitable for installation on posts – traversable only with steel carabiner
Hex bolt M16 x 45 mm and hex nut M16 included in the scope of delivery

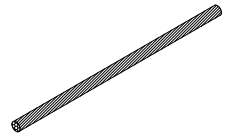
SEIL | STAINLESS STEEL CABLE

AIO-SEIL-30

STAINLESS STEEL CABLE (EN 795 C)

Material: Stainless steel (AISI 316)
Dimensions: Ø 8 mm (7 x 7)
Breaking load: 37 kN

Tested for INNOTECH lifeline system

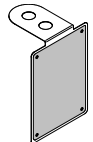


TYP | RATING PLATE

KIT-BOX-TYP-10

RATING PLATE, HORIZONTAL LIFELINE SYSTEM,
WITH INNOTECH ORIGINAL CARABINER
TRAVERSABLE (EN 795 C)

Material: Stainless steel (AISI 316), plastic
Designation: Horizontal lifeline system



TEMPORARY PROTECTION ON THE ROOF

TFS-SYSTEM

Temporary ridge safety system



The temporary ridge safety system from INNOTECH is the perfect protective measure when setting up roof trusses. On the ground, the system is already attached to the wooden construction of the roof truss, and it provides protection to the installer on the ridge while he performs his work. In combination with personal protective equipment against falls from a height, the TFS system from INNOTECH

- Lifeline system with end lock and energy absorber
- Can be used for ridge heights greater than 4.5 m
- Can be stretched freely up to 15 m
- Can be extended to 30 m using an intermediate post
- Variably adjustable depending on wood dimensions

is one of the safest solutions on the market. This system is characterised in particular through its time and cost efficiency, because it is possible to do without setting up additional scaffolding or fall protection nets indoors. Delivery as individual components means that defective or worn parts can be replaced economically.

- Integrated shock force absorption
- Individual components are simple to replace
- Certification to the latest state of the art:

EN 795:2012 TYPE C

Temporary ridge safety system

TFS | TEMPORARY RIDGE SAFETY SYSTEM

AIO-STA-11-470

SYSTEM POST

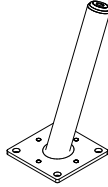
Substructure: Concrete, wood, trapezoidal supporting sheet, steel construction, etc.

Post dimensions: 470 mm, Ø 48 mm

Base plate dimensions: 150 x 150 x 8 mm

Inclination: 68 degrees

Material: galvanised steel



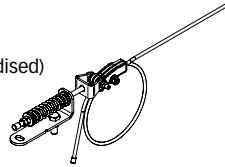
2x AIO-STA-11-470 included

AIO-ENDS-50

END LOCK, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

For a non-traversable cable span, with integrated shock force absorption

Material: Stainless steel (AISI 316), aluminium (anodised)



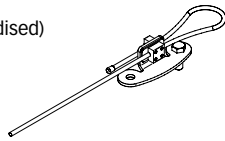
1x AIO-ENDS-50 included

AIO-ENDS-51

END LOCK, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

For a non-traversable cable span, with integrated shock force absorption

Material: Stainless steel (AISI 316), aluminium (anodised)



To be used only in combination with AIO-ENDS-50, with a straight cable span

1x AIO-ENDS-51 included

AIO-SEIL

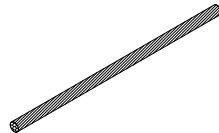
STAINLESS STEEL CABLE (EN 795 C)

Dimensions: Ø 8mm (7 x 7)

Length: 16.5 m

Breaking load: 37 kN

Material: Stainless steel (AISI 316)



Tested for INNOTECH® lifeline system

1x AIO-SEIL included

TFS | ASSOCIATED EQUIPMENT

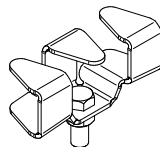
LIFELINE-KIT-SZH-10

INTERMEDIATE BRACKET, TRAVERSABLE (EN 795 C)

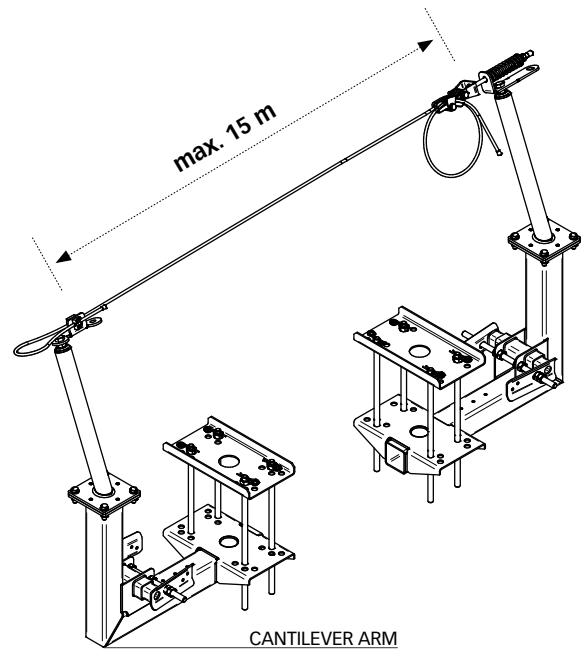
Substructure: AIO-STA, AIO-STX, AIO-FALZ, AIO-SAND, AIO-VARIO, AIO-SYST, etc.

Connection: Thread M16

Material: stainless steel (AISI 304)



Suitable for installation on posts traversable only with steel carabiner



ASSOCIATED EQUIPMENT

STRING-1

Sizes: Universal

Max. rated load: 130 kg



Extendable basic harness (1kg) with automatic lock, in carrying pouch

PSA-BRAKE

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT

Lengths: 2/5/10/15/20/25 m

PSA-BRAKE-2 without integrated shock absorber for:

Restraint system (EN 354)

Positioning system (EN 358)



From PSA-BRAKE-5 with integrated shock absorber for:

Fall arrest system/restraint system (EN 353-2)

Positioning system (EN 358)

Temporary horizontal lifeline system (EN 795)

Special lengths on request only!

EAP-SLING-10

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT

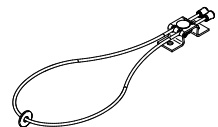
Substructure: Wood (min. 10/12 cm or 8/8 cm + min. 20 mm wooden formwork)

Cable diameter: Ø 5 mm, stainless steel (AISI 304)

Slings length: 400 mm

Packaging unit: 1 unit/10 units

Material: galvanised steel, stainless steel (AISI 304)



Minimum perforation depth into the statically load-bearing construction: 100 mm or 80 mm

TYP | RATING PLATE

AIO-TYP-50

RATING PLATE, AIO LIFELINE SYSTEM, NOT TRAVERSABLE (EN 795 C)

Designation: Horizontal lifeline system

Material: Stainless steel (AISI 316), plastic

Various fastening options



VERTICAL LIFELINE SYSTEM

VERT-SET-50

Lifeline system



The VERT-SET-50 from INNOTECH is the innovation in vertical lifeline systems. Once attached to the new travelling eyebolt, the user is able to ascend with even more freedom of movement, because the eyebolt slides unimpeded and free over the traversable system.

- Vertical lifeline system with projection to protect people from falling
- Traversable intermediate bracket for unimpeded access
- Accessibility to the lifeline system without detaching or reconnecting
- User-friendly installation without special tools
- Flexible guiding through vertical curves is possible

The particularly flexible system prevents incorrect use, and the core of the system, the new travelling eyebolt, has an innovative safety function.

- No safety cage required for the vertical lifeline system
- Slider has new safety function – use in the incorrect direction is not possible
- Certification to the latest state of the art:

EN 353-1:2014

Complete vertical set

ATTENTION: As per standard EN 353-1:2014, vertical lifeline systems may be placed on the market only as complete systems, i.e. with VERT-GLEIT-50, VERT-SET-50, and AIO-SEIL-30 (see item 3 of the standard).

Extended profile for an optimum transition to the roof surface

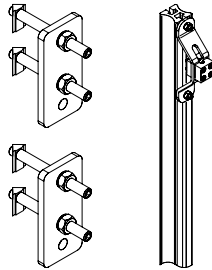
VERT-SET | COMPLETE VERTICAL SET

VERT-SET-50

ATTACHMENT AT TOP

Material: Stainless steel (AISI 304), aluminium
Substructure: Ladder
Rung dimensions: max. 45 x 45 mm, Ø 45 mm

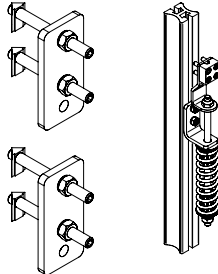
Additional safety attachment
to the building structure (VERT-SAFE-50) optional



ATTACHMENT AT BOTTOM

Material: Stainless steel (AISI 304), aluminium
Substructure: Ladder
Rung dimensions: max. 45 x 45 mm, Ø 45 mm

Additional safety attachment
to the building structure (VERT-SAFE-50) optional



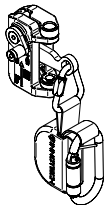
GLEIT | TRAVELLING EYEBOLT

VERT-GLEIT-50

MOBILE ANCHORAGE POINT/TRAVELLING EYEBOLT, REMOVABLE, CURVE COMPATIBLE (EN 353-1:2014)

Material: stainless steel (AISI 304), (AISI 316)

Can be installed and removed at any point in the vertical lifeline system, with integrated shock force absorption, suitable for traversing the pass-through elements (intermediate brackets and curved elements)



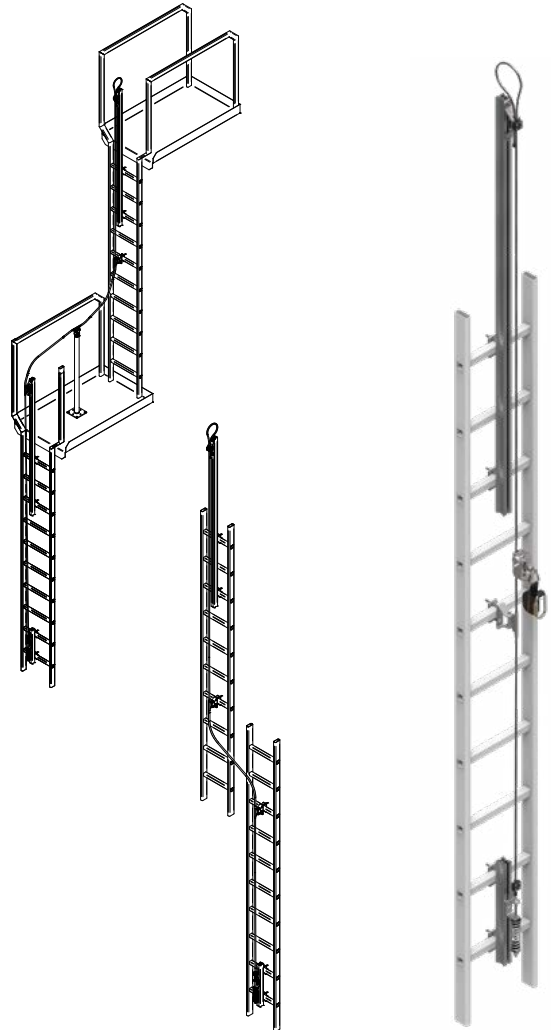
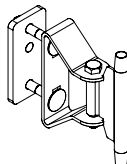
SZH | INTERMEDIATE BRACKET

VERT-SZH-50

INTERMEDIATE BRACKET, VERTICALLY TRAVERSABLE

Material: stainless steel (AISI 304)
Substructure: Ladder, aluminium/steel construction
Rung dimensions: max. 45 x 55 mm, Ø 45 mm

Intermediate bracket separation 5 m



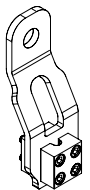
INTERMEDIATE BRACKETS

VERT-SAFE-50

REDUNDANT SECURING

Material: Aluminium 5754

For more security additional attachment
on the building structure.
Absolutely essential when the ladder rungs
cannot withstand a force of 16kN (as per EN 353-1)

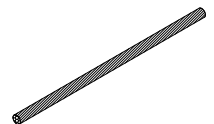


AIO-SEIL-50

CABLE OF STAINLESS STEEL (EN 795 C)

Material: Stainless steel (AISI 316)
Dimensions: Ø 8mm (7 x 7)
Breaking load: 37 kN

Tested for INNOTECH lifeline system



TYP | RATING PLATES

VERT-TYP-50

RATING PLATE, VERTICAL LIFELINE SYSTEM, (EN 795 C)

Dimensions: 3 x 12 cm
Material: Plastic

Is stuck onto VERT-SET-50



EAP-STABIL-10/AIO-STA-10

STABIL-10 | STA-10

Single anchor point & system post



The STABIL-10 single anchor point and the STA-10 system post have a very high base stability, and provide multiple

of implementation options on almost all substructures.

- EAP STABIL-10 is an ideal single anchor point for personal safety
- AIO-STA-10 is optimal as an end/corner post in the INNOTECH cable and rail system
- Fastening spacings up to 15 m are possible in the lifeline system
- Abseiling eye EAP-ABP-10-30, also suitable for abseiling (up to 600 mm length)
- High base stability and low force introduction, thanks to plastic deformation

- Certification to the latest state of the art:

EN 795:2012 TYPES A and C

CEN/TS 16415:2013

DIBt general building inspectorate approval



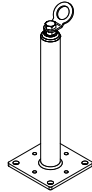
EAP | AIO

EAP | SINGLE ANCHOR POINT

EAP-STABIL-10

SINGLE ANCHOR POINT WITH
ROTATING ANCHORAGE EYE (EN 795 A)

Post heights: 400 mm/600 mm, Ø 48 mm
Base plate dimensions: 150 x 150 x 8 mm
Material: galvanised steel / stainless steel (AISI 304)

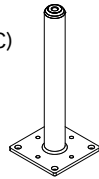


AIO | SYSTEM POST

AIO-STA-10

END/CORNER POST IN THE AIO LIFELINE SYSTEM (EN 795 C)

Post heights: 400 mm/600 mm/800 mm, Ø 48 mm
Base plate dimensions: 150 x 150 x 8 mm
Material: galvanised steel

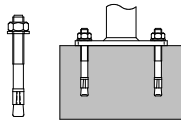


BEF | FASTENING SET - CONCRETE

BEF-104-A4

ANCHOR BOLTS, CONCRETE (MIN. C20/25) –
CRACKED AND NON-CRACKED

Material: Stainless steel (AISI 316)
Contents: 4x anchor bolts
FISCHER FAZ II 12/10 A4
Drilling depth: min. 105mm (Ø 12mm)

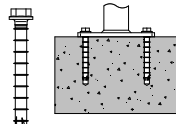


BEF-111

SCREW-IN ANCHOR
CONCRETE (MIN. C20/25)

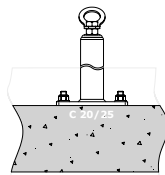
Material: galvanised steel
Contents: 4x HILTI HUS3-H 10 x 90 VZ screw-in anchors

Drilling depth: min. 95 mm (Ø 10mm)



ADHESIVE ANCHOR

Contents: 4x M12 threaded rods
4x washers
4x M12 lock nuts or
4x nuts with spring-lock washer
Perforation depth: at least 100mm
Compound mortar: FISCHER FIS SB 390 S, HILTI HY 200



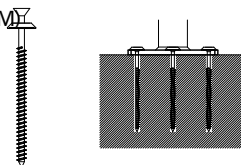
BEF | FASTENING SET - WOOD

BEF-201

WOODWORKING SCREWS
WOOD – WOODEN RAFTER (MIN. 16 X 16 CM)

Material: galvanised steel
Contents: 8x woodworking screws (8 x 140 mm)
8x washers (conical)

Minimum perforation depth into the statically
load-bearing wooden construction: 100 mm

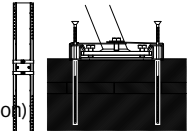


FASTENING SETS

BEF-203

PITCHED ROOF RAIL
WOOD – PITCHED ROOF, WOODEN RAFTER (MIN. 8 X 10 CM)

Material: galvanised steel
Contents: 1x pitched roof rail (1250 x 195 x 35 mm)
8x woodworking screws (8 x 220 mm)
(including fastening accessories for post installation)

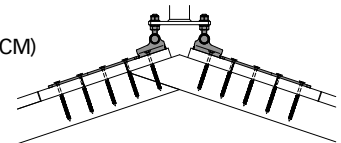


Minimum perforation depth into the statically load-bearing wooden
construction: 90 mm

BEF-206

RIDGE ADAPTER
WOOD – RIDGE INSTALLATION,
WOODEN RAFTER (AT LEAST 8 X 8 CM)

Material: galvanised steel

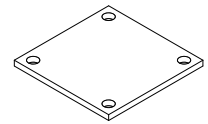


Cross-section of the supporting wood excluding wooden formwork, at least
80 x 80 mm,
Thickness of wooden formwork: 20 mm
Minimum perforation depth into the statically load-bearing wooden construction: 80 mm

BEF-401-10

COUNTER PLATE (150 X 150 X 8 MM)

Material: galvanised steel
Max. width: 105 mm

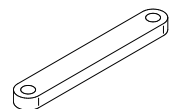


Suitable fastening accessories included in the scope of delivery.

BEF-403

COUNTER SLAT (140 X 20 X 10 MM)

Material: galvanised steel
Packaging unit: 2 items
Max. width: 105 mm



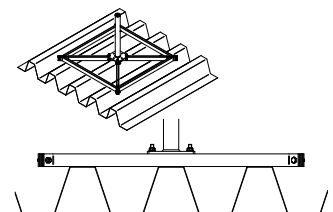
Suitable fastening accessories included in the scope of delivery.

BEF | FASTENING SET - TRAPEZOIDAL SHEETING

BEF-303

FASTENING FRAME
TRAPEZOIDAL SUPPORTING SHEET

Material: galvanised steel
Dimensions: 840 x 840 x 40 mm
Sheet steel thickness: at least 0.6 mm



Enables optimum load distribution over the trapezoidal sheeting,
very varied options for use

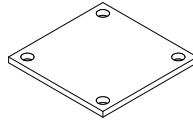
Different possibilities for combining with BEF-303-1 or BEF-303-3

BEF | FASTENING SET - STEEL

BEF-401-10

COUNTER PLATE (150 X 150 X 8 MM)

Material: galvanised steel
 Max. width of steel construction:
 105 mm

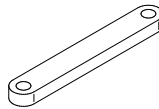


Suitable fastening accessories included in the scope of delivery.

BEF-403

COUNTER SLAT (140 X 20 X 10 MM)

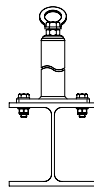
Material: galvanised steel
 Packaging unit: 2 items
 Max. width: 105 mm



Suitable fastening accessories included in the scope of delivery.

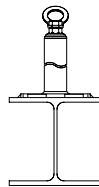
STEEL BOLTS

4x steel bolt M12, steel quality ≥ 5.6
 4x lock nuts M12 or 4x nuts with
 spring-lock washer; use suitable washers
 on the 4 corner bores



WELDING

Weld seam at least A5 and 80 mm length
 for each base plate side
 Before welding, remove powder coating and
 zinc coating correctly

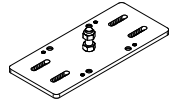


FASTENING SETS

BEF-830-03

FASTENING SET FOR I-BEAM STRUCTURES

Material: galvanised steel
 Flange width: 180 to 260 mm

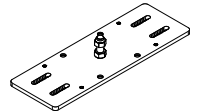


Can only be used in combination with BEF-840/841

BEF-830-04

FASTENING SET FOR I-BEAM STRUCTURES

Material: galvanised steel
 Flange width: 260 to 350 mm

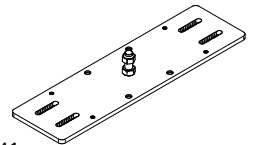


Can only be used in combination with BEF-840/841

BEF-830-05

FASTENING SET FOR I-BEAM STRUCTURES

Material: galvanised steel
 Flange width: 350 to 450 mm

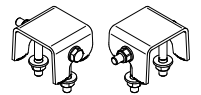


Can only be used in combination with BEF-840/841

BEF-840

FASTENING SETS FOR BEF-830-XX

Material: galvanised steel
 Flange thickness: 8 to 26 mm

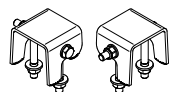


Can only be used in combination with BEF-830-01/02/03/04/05

BEF-841

FASTENING SETS FOR BEF-830-XX

Material: galvanised steel
 Flange thickness: 24 to 40 mm



Can only be used in combination with BEF-830-01/02/03/04/05

MULTIPLE USES
ON ALMOST ALL SUBSTRUCTURES

AIO-STABIL

MAX AICHER ARENA
Inzell, Austria



- Ideal single anchor point for personal safety
- Post spacings up to 15 m possible in the lifeline system
- High base stability and low force introduction, thanks to plastic deformation

MORE SAFETY.
MORE INFORMATION.
MORE FROM LIFE!

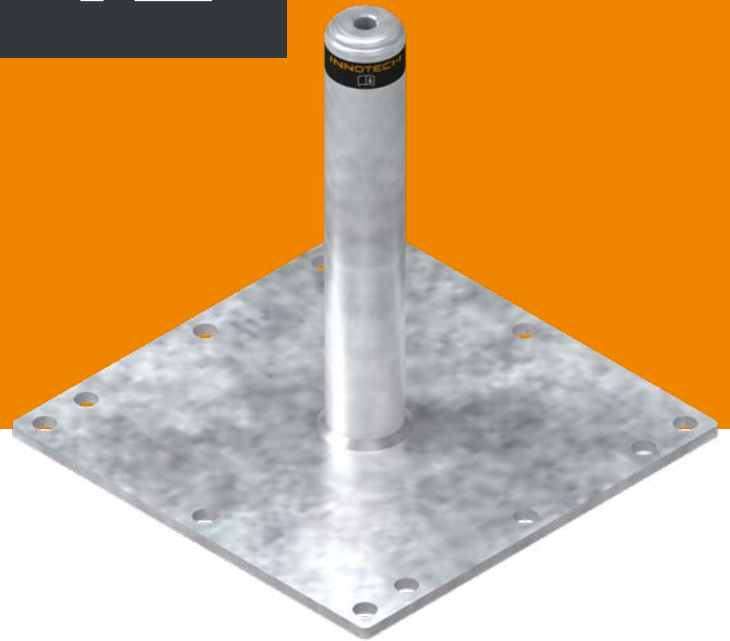
INNO|training
INNO|school
INNO|plan
INNO|doc

www.innotech.at

AIO

AIO-STA-12

Universal post



The AIO-STA-12 universal post from INNOTECH can be used as a single anchor point and a system post in the AIO lifeline

system. The very varied fastening sets make it possible to install the post on almost all substructures.

- AIO-STA-12 is optimal as an end/corner post in the INNOTECH lifeline and rail system.
- With abseiling eye EAP-ABP-10-30, it is also suitable for abseiling (up to 600 mm length)
- High base stability and low force introduction, thanks to plastic deformation
- Post spacings up to 15 m are possible in the lifeline system
- Also available in A4 stainless steel upon request

- Certification to the latest state of the art:

EN 795:2012 TYPES A and C

CEN/TS 16415:2013

DIBt general building inspectorate approval



AIO | SYSTEM POST

AIO-STA-12

END, CORNER, AND INTERMEDIATE POST

Substructure: Concrete, hollow concrete slab, trapezoidal supporting sheet, steel construction, etc.
Post heights: 400/600/800 mm, Ø 48 mm
Base plate dimensions: 300 x 300 x 8 mm
Material: galvanised steel



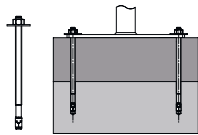
Thermal insulation cap and sealing sleeve included in product accessories
Order a suitable fastening set at the same time

BEF | FASTENING SET - CONCRETE

BEF-102

ANCHOR BOLTS, CONCRETE (MIN. C20/25) - SOLID CONCRETE WITH SLOPE COMPENSATION

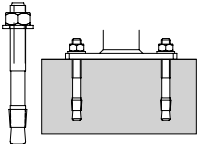
Material: galvanised steel
Contents: 4x anchor bolts
FISCHER FBN 12/120 + 140



BEF-104-A4

ANCHOR BOLTS, CONCRETE (MIN. C20/25) - CRACKED AND NON-CRACKED

Material: Stainless steel (AISI 316)
Contents: 4x anchor bolts
FISCHER FAZ II 12/10 A4

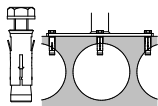


Drilling depth: min. 105mm (Ø 12mm)

BEF-107

HOLLOW CORE ANCHOR, HOLLOW CONCRETE SLAB (MIN. C50/60, B4)

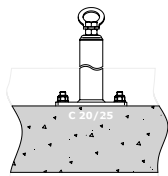
Material: galvanised steel
Contents: 8x hollow core anchors FISCHER FHY-M10 x 52
8x hex bolts M10 x 60 (DIN 933)
8x washers (M10)



Cross section of hollow-core slab (concrete thickness) at least 30 mm

ADHESIVE ANCHOR

Contents: 4x M12 threaded rods
4x washers
4x M12 lock nuts or
4x nuts with spring-lock washer
Perforation depth: at least 100mm
Compound mortar: FISCHER FIS SB 390 S, HILTI HY 200

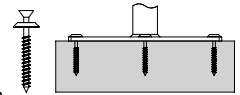


BEF | FASTENING SET - WOOD

2X BEF-209

WOODWORKING SCREW, SOLID WOOD CEILING (MIN. 80 MM)

Material: galvanised steel
Contents: 4x wood screws (8 x 80 mm)
4x washers (conical)

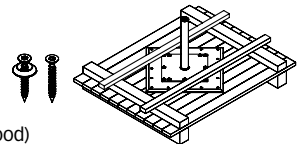


Thickness of the solid wood ceiling at least 80 mm
Use in combination with the AIO-STA-12 post 2x BEF-209

BEF-210

WOODWORKING SCREW, WOOD/OSB BOARD THICKNESS (MIN. 22 MM)

Material: wood, galvanised steel
Contents: 48x wood screws (6 x 50 mm)
12x washers (conical)
1x pressure regulation plate
(500 x 500 x 15 mm, plywood)



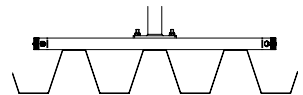
Product: AIO-STA-12
Thickness of wooden formwork: 24 to 30 mm.
Width of wooden formwork: 80 to 160 mm.
OSB board thickness at least 22 mm

BEF | FASTENING SET - TRAPEZOIDAL SHEETING

BEF-303

FASTENING FRAME, TRAPEZOIDAL SUPPORTING SHEET

Material: galvanised steel
Dimensions: 840 x 840 x 40 mm
Sheet steel thickness: at least 0.6 mm



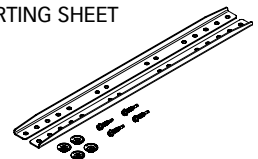
Enables optimum load distribution over the trapezoidal sheeting, very varied options for use, various combination options with BEF-303-1 or BEF-303-3

BEF-307-1

STABILISING LEDGE, TRAPEZOIDAL SUPPORTING SHEET

Sheet steel thickness: at least 0.63 mm

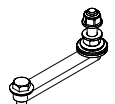
Product: EAP-QUAD-13, AIO-STA-12
Can only be used in combination with BEF-307



BEF-404

SCREW FASTENING, TRAPEZOIDAL SUPPORTING SHEET

Material: galvanised steel
Contents: 4x counter slats including screw material, sealing discs
Sheet steel thickness: at least 0.7 mm



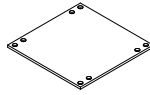
Can only be used to a limited extent in the AIO lifeline system (BEF-307-1)

BEF | FASTENING SET - COUNTERING

BEF-401-12

COUNTER PLATE, STEEL CONSTRUCTION
(150 X 150 X 8 MM)

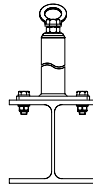
Material: galvanised steel



STEEL BOLTS

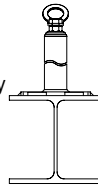
- 4x steel bolts M12, steel quality ≥ 5.6
- 4x M12 lock nuts or
- 4x nuts with spring-lock washer

Use suitable washers on the 4 corner bores



WELDING

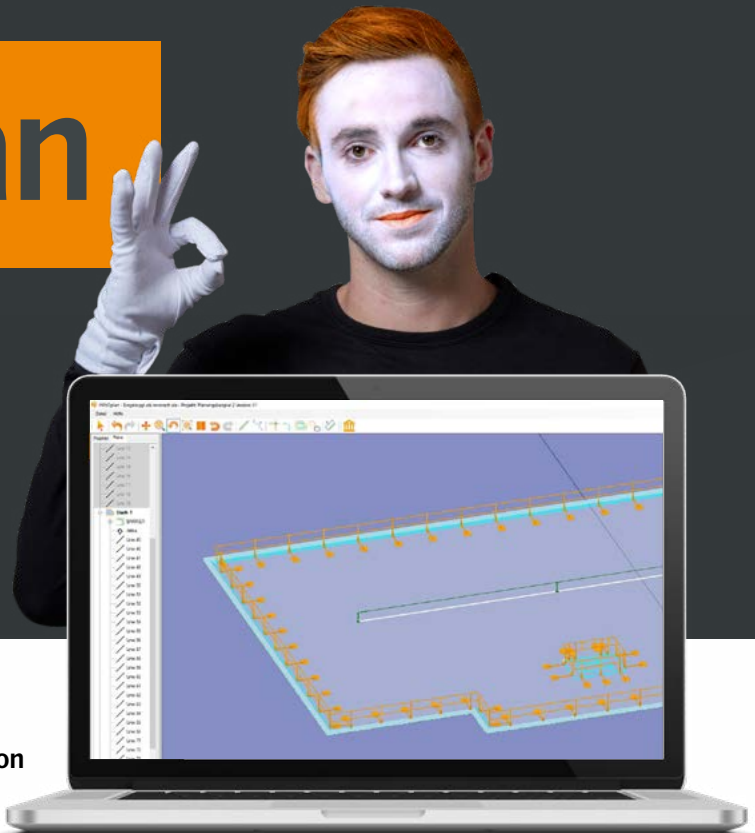
Weld seam at least A5 and 80 mm length for each base plate side
Before welding, remove powder coating and zinc coating correctly



THE INNOTECH PLANNING TOOL

INNO|plan

Efficient planning



TIME IS MONEY – USE INNO|PLAN

INNOTECH® – your full service provider for the invitation to tender and the planning of fall protection systems.

- Simple installation and use
- Individual user settings
- 3D view
- Enormous time-saving through automation
- Error reduction through integrated logic
- Automatic generation of parts lists
- Automated proposal generation by INNOTECH
- INNOTECH planning service online
- Project handover
- Regular updates about ongoing optimisation

Import of plans,
ortho-images,
sketches, or photos

Definition of
substructure, edges,
and roof surfaces

Selection of
products or
systems

Automatic generation
of parts lists and sub-
mission of proposals

Export of the plan
(pdf, dxf, dwg, ...)



The expertise of our staff is always state-of-the-art in terms of development and of legal requirements.

Regardless whether in terms of applicable standards and regulations, or the selection of the most economical

equipment variants.

Planned by our team, you will get a reliable fall protection that fits your building project perfectly.

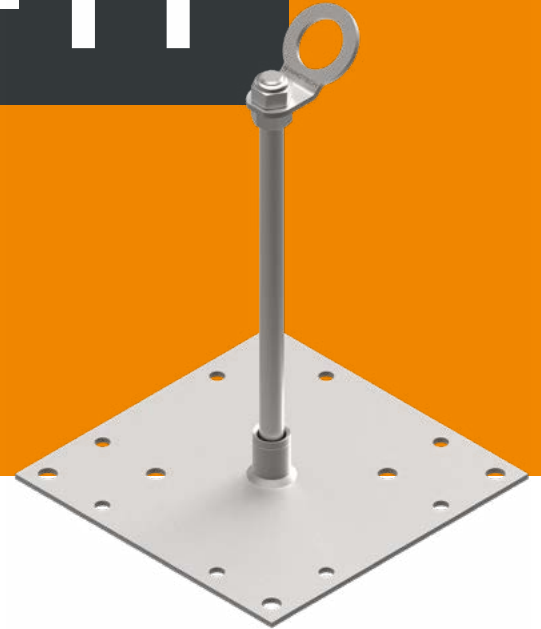
Contact our INNO|plan service team.

T: +43 7619 22122-222 | E: innoplan@innotech.at
www.innotech.at

EAP

EAP-QUAD-11

Universal post



The EAP-QUAD-11 universal post from INNOTECH can be used both as a single anchor point and as an intermediate post in the AIO lifeline system.

The very varied fastening sets make it possible to install the post on most substructures.

- Can be used universally as a single anchor point or as a system post
- Fastening spacings up to 15 m are possible in the lifeline system
- There is a suitable fastening set for every substructure
- Perfect as an intermediate post for the INNOTECH® lifeline system
- Material: Stainless steel A2 (AISI 304)

- Certification to the latest state of the art:

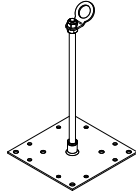
EN 795:2012 TYPES A and C
CEN/TS 16415:2013

EAP | SYSTEM POSTS

EAP-QUAD-11

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE (EN 795 A)/INTERMEDIATE POST IN THE AIO LIFELINE SYSTEM (EN 795 C)

Material: stainless steel (AISI 304)
Substructure: Concrete, hollow concrete slab, wood, trapezoidal supporting sheet, OSB
Post heights: 400/600, Ø 16 mm
Base plate dimensions: 235 x 235 x 4 mm

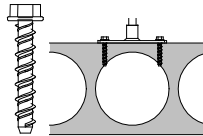


BEF | FASTENING SET - CONCRETE

BEF-103

SCREW-IN ANCHOR
CONCRETE (MIN. C20/25)
HOLLOW CONCRETE SLAB (MIN. C50-60, B4)

Contents: 4x HILTI HUS3-H screw-in anchors
8x 55 5VZ
Material: galvanised steel

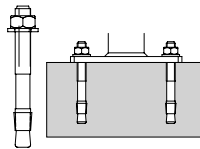


Drilling depth for concrete at least 60 mm (Ø 8 mm),
cross section of hollow-core slab (concrete thickness) at least 25 mm

BEF-104-A4

ANCHOR BOLT, CONCRETE (MIN. C20/25) -
CRACKED AND NON-CRACKED

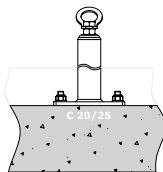
Material: Stainless steel (AISI 316)
Contents: 4x anchor bolts
FISCHER FAZ II 12/10 A4



Drilling depth: min. 105mm (Ø 12mm)

ADHESIVE ANCHOR

Contents: 4x M12 threaded rods
4x washers
4x M12 lock nuts or
4x nuts with spring-lock washer
Perforation depth: at least 100mm
Compound mortar: FISCHER FIS SB 390 S, HILTI HY 200

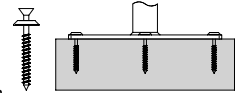


BEF | FASTENING SET - WOOD

BEF-209

WOODWORKING SCREW, SOLID WOOD CEILING (MIN. 80 MM)

Material: galvanised steel
Contents: 4x wood screws (8 x 80 mm)
4x washers (conical)

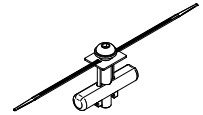


Thickness of the solid wood ceiling at least 80 mm
Use in combination with the AIO-STA-12 post
2x BEF-209
Product: EAP-QUAD-11/AIO-STA-12

BEF-307

SPECIAL ANCHOR, WOOD - OSB

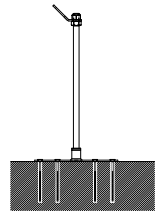
Material: stainless steel (AISI 304), plastic
Contents: 4x special anchors
OSB board thickness: 18 to 30 mm



BEF-205

WOODWORKING SCREWS, WOOD SANDWICH

Contents: 4x woodworking screws (8 x 120 mm)
8x woodworking screws (6 x 40 mm)
Material: galvanised steel

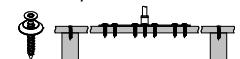


Cross-section of the supporting wood excluding wooden formwork at least 80 x 100 mm, thickness of wooden formwork 20 mm
Minimum perforation depth into the statically load-bearing wooden construction: 95 mm

BEF-208

WOODWORKING SCREWS
WOOD – ROUGH FORMWORK (AT LEAST 80 X 24 MM)

Material: galvanised steel
Contents: 25x woodworking screws (6 x 50)
14x washers (conical)



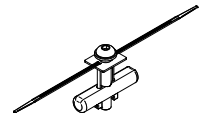
Thickness of the wooden formwork 24 – 30 mm
Width of the wooden formwork 80 – 160 mm

BEF | FASTENING SET - TRAPEZOIDAL SHEETING

BEF-307

SPECIAL ANCHOR, TRAPEZOIDAL SUPPORTING SHEET

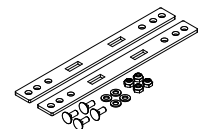
Material: Stainless steel V2A (AISI 304), plastic
Contents: 4x special anchors
OSB board thickness: 18 to 30 mm
Sheet steel thickness: at least 0.63 mm



BEF-307-3

ADAPTER STRIP,
TRAPEZOIDAL SUPPORTING SHEET

Sheet steel thickness: at least 0.63 mm
Product: EAP-QUAD-13

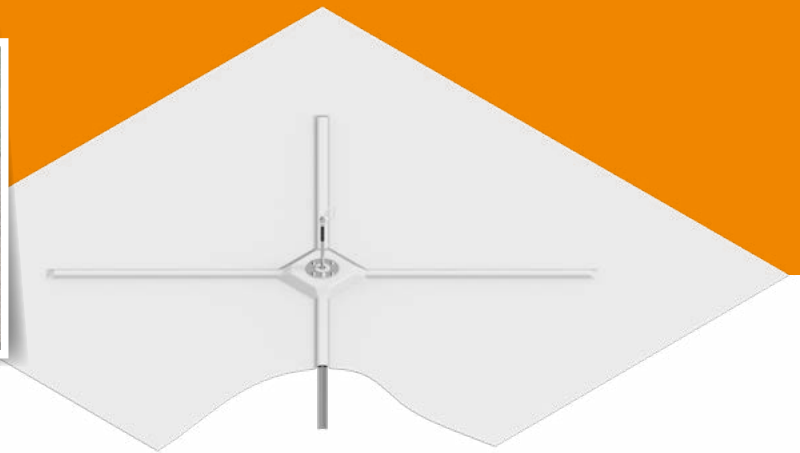


Can only be used in combination with BEF-307

NEW FOR GREEN AND GRAVELLED ROOFS

QUAD-30-300

Self supporting – (system) post



The new self supporting post QUAD-30 from INNOTECH was specially developed for green and gravelled roofs.

The installation is without roof perforation which is a huge advantage of this product. There are no interventions into the building's physics and the associated avoidance of cold spots.

With the product development of QUAD-30, INNOTECH combines security sustainability and offers a visually unobtrusive solution for fall protection on environmentally friendly green roofs.

- For green and gravelled roofs
- Single anchor point or end-/corner or intermediate post in the INNOTECH rail system
- Self supporting through substrate or gravel
- Quick and easy installation independent of the roof construction
- Installation without roof perforation, without interventions into the building's physics (no cold spots), no scouring or gluing work required jederzeit dachdurchdringungsfrei nachrüstbar
- Nutzungsdauer Vlies: max. 100 Jahre
- When used as single anchor point, a UNI-EAP-10-25 must be additionally ordered
- Post spacing max. 3 m when used with Taurus rail system.
- Certified according to the latest standards:
EN 795:2012 TYP D and E

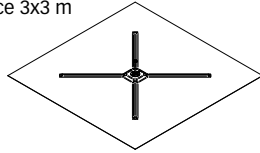
Self supporting – (system) post

QUAD | GREEN ROOF POST

QUAD-30-300

SELF SUPPORTING (SYSTEM) POST FOR RAIL SYSTEM ANCHOR POINT ON GREEN AND GRAVELLED ROOFS

Material: Stainless steel V2A (AISI 304), PP-fleece 3x3 m
Mountable on: green and gravelled roof
Auflast: $\geq 56 \text{ kg/m}^2$
Bearing load: $\geq 56 \text{ kg/m}^2$
Post dimensions: 300 mm, $\varnothing 16 \text{ mm}$
Base plate size: 235 x 235 x 4 mm



*QUICK AND EASY INSTALLATION
INDEPENDENT OF THE ROOF
CONSTRUCTION*

*UPGRADABLE WITHOUT ROOF
PERFORATION AT ANY TIME*

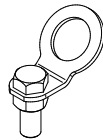
*SELF SUPPORTING THROUGH
SUBSTRATE OR GRAVEL*

ACCESSORY

UNI-EAP-10-25

UNIVERSAL ANCHORAGE EYE

Substructure: QUAD-30-300
Usable thread length: 29 mm
Thread: M16 (DIN 933, ISO 4017)
Material: Stainless steel V2A (AISI 304)



QUAD-30 / Self supporting – (system) post

AIO

AIO-BKS

Assembly kit post



Using the BKS assembly kit post from INNOTECH, only a stop shaft is required for securing all further components in the horizontal lifeline system. The economical BKS assembly kit post is made up of two components, and is used in the

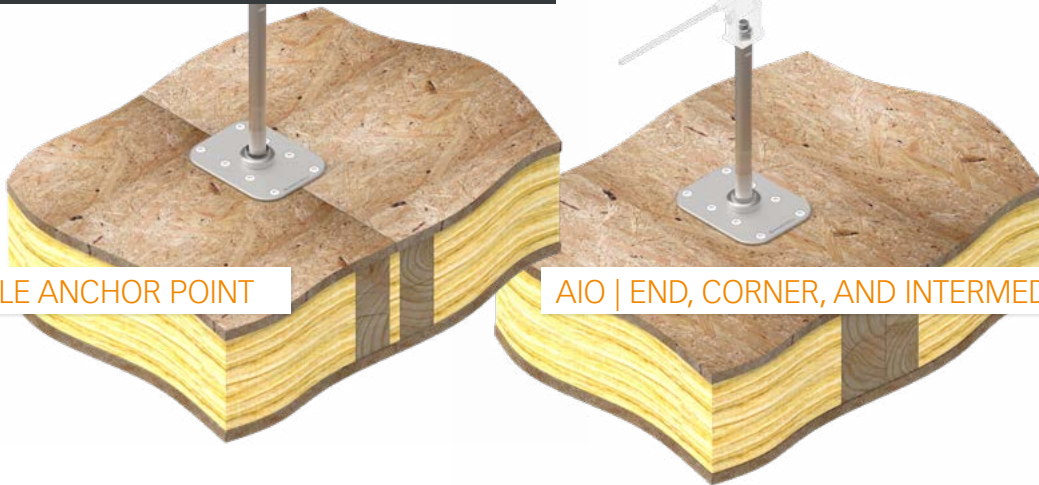
lifeline system as a single anchor point or as an end, corner, and intermediate post. In addition, it can also be used together with INNOTECH SPAR-10-25 as a single anchor point.

- Installation can be performed in two steps
- Post spacings up to 12m are possible in the lifeline system
- Can also be used with INNOTECH EAP-SPAR-10-25 as a single anchor point
- Mechanical anti-rotation device ensures a secure hold

- High level of prefabrication, especially for timber construction
- Very easy to install, no special tools required
- Certification to the latest state of the art:

EN 795:2012 TYPES A and C
CEN/TS 16415:2013

Assembly kit post



EAP | SINGLE ANCHOR POINT

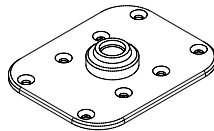
AIO | END, CORNER, AND INTERMEDIATE POST

BKS | BASE PLATE

AIO-BKS-GP-01

BASE PLATE FOR END, CORNER, AND INTERMEDIATE POST IN THE AIO LIFELINE SYSTEM FOR LIGHTWEIGHT WOODEN CONSTRUCTION (EN 795 C)

Substructure: wood at least 14 x 16 cm
Roofing elements made of wood
(Requirements as per product description)
Material: stainless steel (AISI 304)
Base plate dimensions: 178 x 140 x 40mm

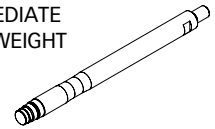


BKS | STOP SHAFT

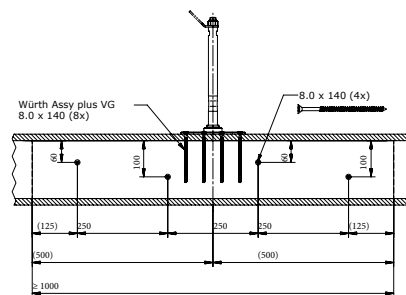
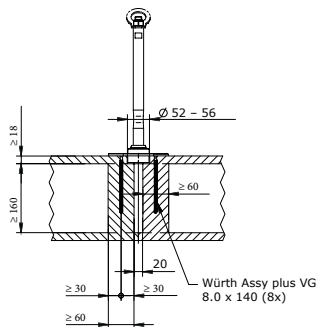
AIO-BKS-AW-01

STOP SHAFT FOR END, CORNER, AND INTERMEDIATE POST IN THE AIO LIFELINE SYSTEM FOR LIGHTWEIGHT WOODEN CONSTRUCTION (EN 795 C)

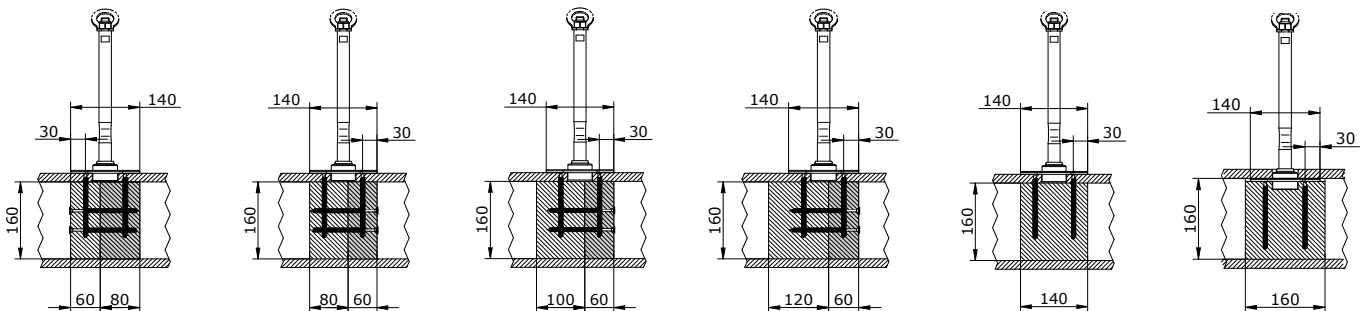
Substructure: base plate AIO-BKS-GP-01
Material: stainless steel (AISI 304)
Length: 300 mm
Optional use as a single anchor point in conjunction with EAP-SPAR-10-25 possible!



STANDARD SOLUTION



BEAM SUPPORTING OPTIONS



FOR PITCHED ROOFS

EAP-SLING-10

Single anchor point



EAP-SLING-10 is perfect for use on a pitched roof as a single anchor point. The EAP-SLING-10 single anchor point from INNOTECH requires only a small wood dimension, and blends in perfectly with the building aesthetics because of its discreet appearance.

- Single anchor point for pitched roofs
- Optimum integration with the building aesthetics; especially suitable for listed buildings
- Fast installation without special tools

The effect of the EAP-SLING-10 on the architectural surroundings is very unobtrusive, and it is particularly suitable for listed buildings. The simple fastening option saves additional time during installation.

- Various sling lengths available upon request
- Certification to the latest state of the art:

EN 795:2012 TYPE B

Single anchor point

EAP | SINGLE ANCHOR POINT

EAP-SLING-10

SINGLE ANCHOR POINT FOR PITCHED ROOFS (EN 795 B)

Substructure: Wood (min. 10/12 cm or 8/8 cm + min. 20 mm wooden formwork)

Cable diameter: Ø 5 mm, stainless steel (AISI 304)

Sling length: 400 mm

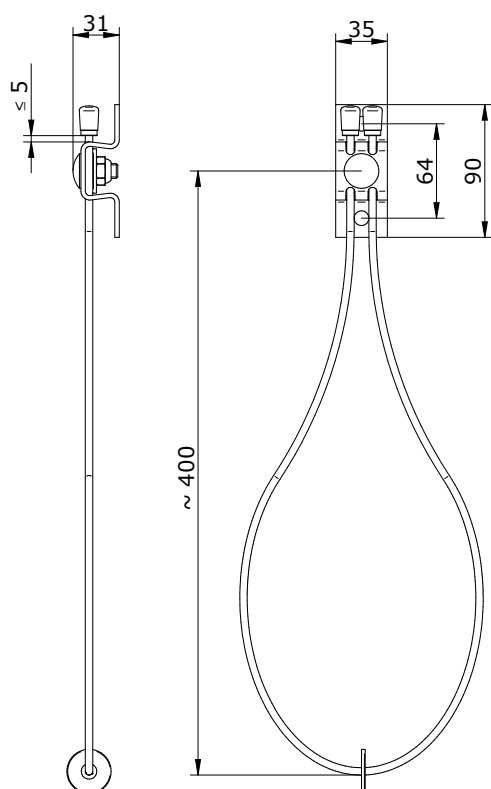
Material: galvanised steel, stainless steel (AISI 304)

Minimum perforation depth into the statically load-bearing construction:

100 mm or 80 mm

Order the suitable woodworking screws at the same time according to roof structure

(HBS Ø 8 mm, length = 100 to 400 mm)



GREAT INHERENT STABILITY

INDUSTRY-31

Crimped clamp



The INDUSTRY-31 crimped clamp from INNOTECH is characterised by its especially high intrinsic stability. The variable setting of the support allows all crimp heights to be covered, and thus ensures the maximum possible flexibility

for the user on the roof. The pre-assembled delivery guarantees rapid installation, which takes place without roof perforation.

- EAP-INDUSTRY-31: Single anchor point for personal safety of 2 people
- SZH-INDUSTRY-31: Intermediate bracket in the lifeline system on a flat or pitched roof
- For double standing seam roofs made of aluminium, steel, and copper
- Simple and rapid installation because of pre-assembled elements

- Installation possible on sliding cleats
- Simple to retrofit at any time
- Certification to the latest state of the art:

EN 795:2012 TYPE A & CEN/TS 16415:2013 (EAP-INDUSTRY-31)
EN 795:2012 TYPE C (SZH-INDUSTRY-31)

INDUSTRY-31

EAP | SINGLE ANCHOR POINT

EAP-INDUSTRY-31

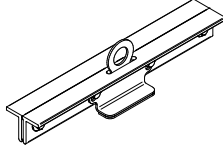
SINGLE ANCHOR POINT WITH ANCHORAGE EYE FOR STANDING SEAM ROOF SYSTEMS (EN 795 A)

Substructure: (double) standing seam roof systems

Material (material thickness): steel (min. 0.5 mm),
aluminium (min. 0.7 mm)

Material: aluminium, stainless steel (AISI 304)

Pre-assembled and does not require roof perforation



EAP-INDUSTRY-31-CU

Substructure: (double) standing seam roof made of copper (at least 0.6 mm)

SZH | INTERMEDIATE BRACKET

SZH-INDUSTRY-31

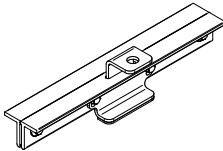
INTERMEDIATE BRACKET IN AIO LIFELINE SYSTEM FOR STANDING SEAM ROOF SYSTEMS (EN 795 C)

Substructure: (double) standing seam roof systems

Material (material thickness): steel (min. 0.5 mm),
aluminium (min. 0.7 mm)

Material: aluminium, stainless steel (AISI 304)

Pre-assembled and does not require roof perforation



EAP-INDUSTRY-31-CU

Substructure: (double) standing seam roof made of copper (at least 0.6 mm)

GREAT INHERENT STABILITY

SYST

System roof clamp



SYST, the robust system roof clamp from INNOTECH, has high intrinsic stability and can be used with great versatility on the most varied system roofs. Through the variable setting of the attachment clamps, all the different roof deck widths of the various system roofs can be covered, and this provides maximum flexibility to the user.

Pre-assembled delivery provides additional time-saving, and significantly reduces the installation time. Installation of the SYST clamp does not require roof perforation, and avoids cold bridges.

- EAP-SYST: single anchor point for 3 people, with rotating anchorage eye
- AIO-SYST: anchorage point for INNOTECH lifeline system
- Suitable for standing seam and industrial metal roofs from different manufacturers, with individually adapted clamps
- By means of sliding screw placement, it is possible to adapt optimally to the profile width
- Due to special clamp jaws, there is no negative effect on the thermal expansion of the roof decks
- Fastening spaces up to 7.5 m in the AIO lifeline system

- Simple and quick installation due to of pre-assembled elements
- Installation without roof perforation (avoids cold bridges)
- Resistant to weathering: Base plate and clamps are made from corrosion-resistant aluminium
- Simple to retrofit at any time
- Certification to the latest state of the art:

EN 795:2012 TYPES A and C
 CEN/TS 16415:2013

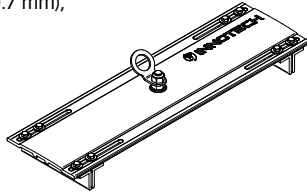
EAP/AIO

EAP | SINGLE ANCHOR POINT VARIANTS

EAP-SYST-01-460-610

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR STANDING SEAM ROOFS (EN 795 A)

Substructure: (double) standing seam roof systems
Material (material thickness): steel (at least 0.5 mm), aluminium (at least 0.7 mm), titanium zinc (at least 0.7 mm), stainless steel (at least 0.5 mm)
Profile width: 410 to 610 mm
Material: aluminium, stainless steel (AISI 304)



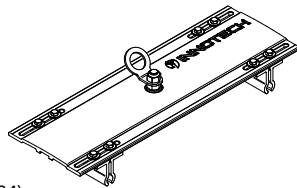
Pre-assembled and does not require roof perforation
Not suitable for copper roofs – use EAP-FALZ-15 or EAP-INDUSTRY-31-CU

EAP-SYST-04-305-333

EAP-SYST-04-400-500

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR ROUND-FOLD ROOF SYSTEMS (EN 795 A)

Substructure: Metal roof systems similar to INTERFALZ
Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)
Profile width: 305 to 333 mm or 400 to 500 mm
Material: aluminium, stainless steel (AISI 304)



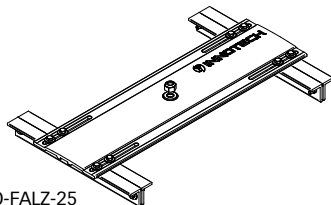
Pre-assembled and does not require roof perforation

AIO | LIFELINE SYSTEM VARIANTS

AIO-SYST-01-460-610

END/CORNER POINT IN THE AIO LIFELINE SYSTEM FOR STANDING SEAM ROOF SYSTEMS (EN 795 A)

Substructure: (double) standing seam roof systems
Material (material thickness): steel (at least 0.5 mm), aluminium (at least 0.7 mm), titanium zinc (at least 0.7 mm), stainless steel (at least 0.5 mm)
Profile width: 410 to 610 mm
Material: aluminium, stainless steel (AISI 304)



Pre-assembled and does not require roof perforation

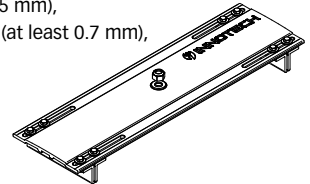
Not suitable for copper roofs – use AIO-FALZ-25

LIFELINE SYSTEM VARIANTS

AIO-SYST-01-460-610-SZH

INTERMEDIATE CABLE BRACKET IN THE AIO LIFELINE SYSTEM FOR STANDING SEAM ROOF SYSTEMS (EN 795 A)

Substructure: (double) standing seam roof systems
Material (material thickness): steel (min. 0.5 mm), aluminium (at least 0.7 mm), titanium zinc (at least 0.7 mm), stainless steel (min. 0.5 mm)
Profile width: 410 to 610 mm
Material: aluminium, stainless steel (AISI 304)



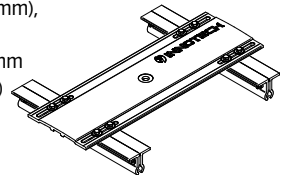
Pre-assembled and does not require roof perforation
Not suitable for copper roofs – use AIO-FALZ-25

AIO-SYST-04-305-333

AIO-SYST-04-400-500

END/CORNER POINT IN THE AIO LIFELINE SYSTEM FOR ROUND-FOLD ROOF SYSTEMS (EN 795 C)

Substructure: Metal roof systems similar to INTERFALZ
Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)
Profile width: 305 to 333 mm or 400 to 500 mm
Material: aluminium, stainless steel (AISI 304)



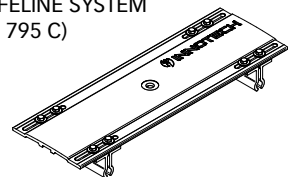
Pre-assembled and does not require roof perforation

AIO-SYST-04-305-333-SZH

AIO-SYST-04-400-500-SZH

INTERMEDIATE BRACKET IN THE AIO LIFELINE SYSTEM FOR ROUND-FOLD ROOF SYSTEMS (EN 795 C)

Substructure: Metal roof systems similar to INTERFALZ
Material (material thickness): aluminium (min. 0.7 mm)
Profile width: 305 to 333 mm or 400 to 500 mm
Material: aluminium, stainless steel (AISI 304)

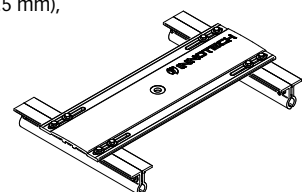


When used as an end point, an AIO-SHOCK-10 must also be included in the order. Pre-assembled and does not require roof perforation

AIO-SYST-09-500

INTERMEDIATE BRACKET IN THE AIO LIFELINE SYSTEM FOR STANDING SEAM ROOF SYSTEMS (EN 795 C)

Substructure: ZAMBELLI RIB-ROOF Evolution metal roof systems
Material (material thickness): steel (min. 0.5 mm), aluminium (min. 0.7 mm)
Profile width: 400 to 500 mm
Material: aluminium, stainless steel (AISI 304)

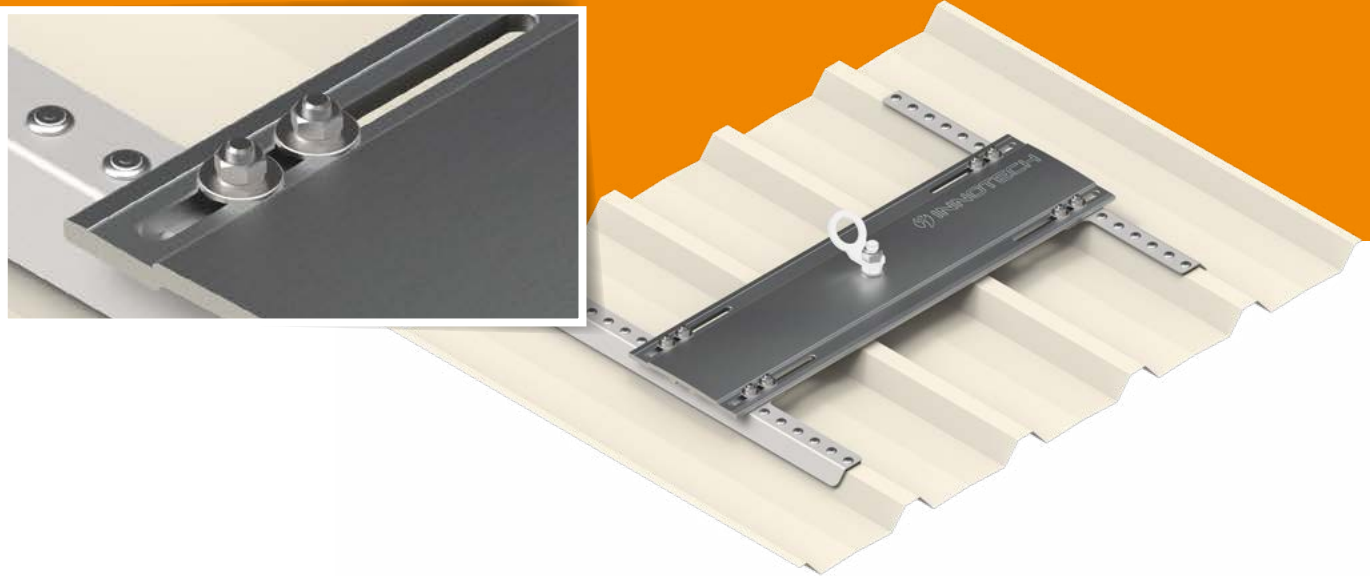


Pre-assembled and does not require roof perforation

END/CORNER POINT, OR INTERMEDIATE BRACKET

SYST-20

Anchorage for trapezoidal sheeting



The SYST-20 anchorage point from INNNOTECH for trapezoidal sheeting is used as an end or corner point in a horizontal lifeline system, and also as an intermediate bracket. By means of variable width adjustment, the SYST-20

adjusts optimally to the very different profile widths of the trapezoidal sheets. In addition, special sealing rivets ensure watertight installation.

- Fastening spacings up to 12 m are possible in the lifeline system
- Can also be used with INNNOTECH EAP-SPAR-10-25 as a single anchor point
- For aluminium/steel (min. 0.5 mm) trapezoidal sheet
- Simple watertight retrofitting at any time

- Optimum adaptation to profile widths between 475 mm and 695 mm by means of sliding screw placement
- Certification to the latest state of the art:

EN 795:2012 TYPES A and C
CEN/TS 16415:2013

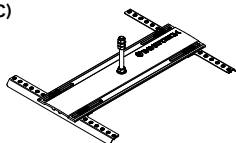
SYST-20

SYST | SYST

AIO-SYST-20-SZH

**INTERMEDIATE CABLE BRACKET in
AIO lifeline system for trapezoidal sheet (EN 795 C)**

Material: steel, aluminium
Substructure: trapezoidal sheet
Material thickness: min. 0.5 mm
Width of profile: 475 to 695 mm
Material: aluminium, stainless steel (AISI 304)

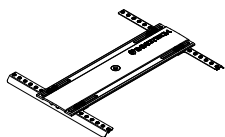


Distance of cable from raised bead of trapezoidal sheeting approx. 200 mm

AIO-SYST-20

**END/CORNER POINT in AIO lifeline system
for trapezoidal sheet (EN 795 C)**

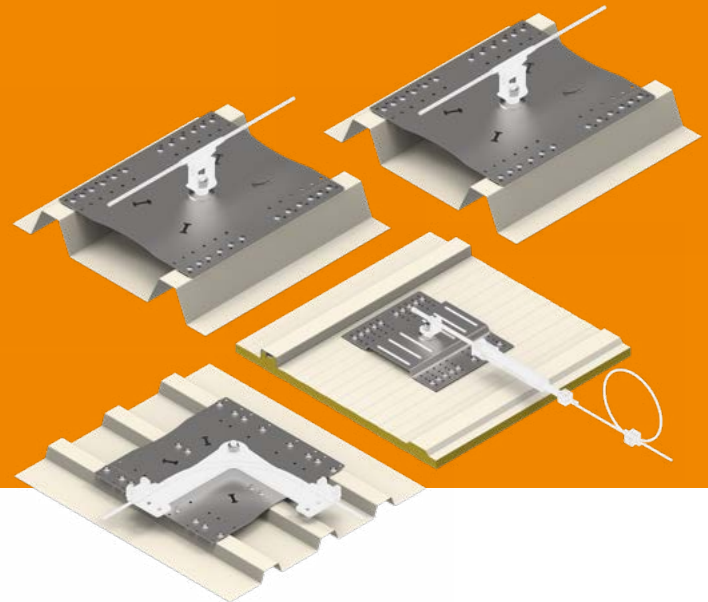
Material: steel, aluminium
Substructure: trapezoidal sheet
Material thickness: min. 0.5 mm
Width of profile: 475 to 695 mm
Material: aluminium, stainless steel (AISI 304)



SAND-10/-11/-12/-13

SAND

System posts



The SAND product family from INNNOTECH® has a low system height, and can therefore be installed easily which makes it architecturally inconspicuous. The various SAND solutions make it possible to cover very varying roof deck widths, as well as trapezoidal sheet materials for many system roofs available on the market. This provides the user with maximum flexibility. In addition, the anchorage device

in the cable system can be used as an end, corner, and intermediate bracket. The perfectly matched fasteners save additional time during installation.

The anchorage point has been tested for lateral loads, and secures three people against a fall from the roof.

- EAP-SAND: Single anchor point for 3 people, with rotating anchorage eye
- AIO-SAND: Anchorage point for INNNOTECH cable system
- For trapezoidal sheet roofs from different manufacturers
- Fastening spacings up to 7.5 m for SAND-10/11/12
- Fastening spacings up to 12 m for SAND-13
- Simple and fast installation

- Resistant to weathering: Base plate and fastenings are made from corrosion-resistant stainless steel
- Simple to retrofit at any time
- Certification to the latest state of the art:

EN 795:2012 TYPES A and C
 CEN/TS 16415:2013

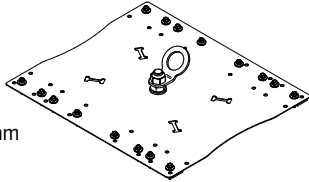
System posts

EAP | SAND-10/11/12/13

EAP-SAND-10-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 A)

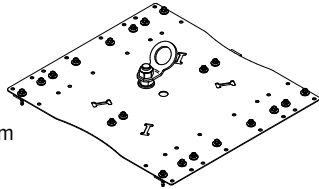
Substructure: trapezoidal sheet
Material: steel
Material thickness: min. 0.6 mm
Width of profile: 250 to 333.3 mm
Base plate dimensions: 360.5 x 415 x 2 mm
Material: stainless steel (AISI 304)



EAP-SAND-11-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 A)

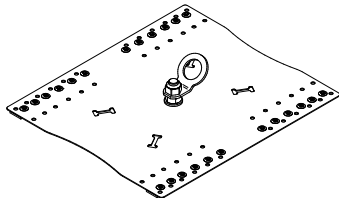
Substructure: trapezoidal sheet
Material: steel
Material thickness: min. 0.6 mm
Width of profile: 277.5 to 414 mm
Base plate dimensions: 389 x 430 x 2 mm
Material: stainless steel (AISI 304)



EAP-SAND-12-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 A)

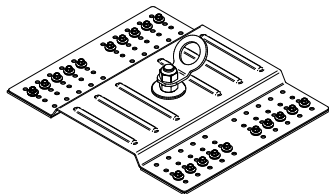
Substructure: trapezoidal sheet
Material: aluminium
Material thickness: min. 0.7 mm
Width of profile: 250 to 333.3 mm
Base plate dimensions: 360.5 x 415 x 2 mm
Material: stainless steel (AISI 304)



EAP-SAND-13-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 A)

Substructure: trapezoidal sheet
Material: steel
Material thickness: min. 0.6 mm
Width of profile: 210 to 330 mm
Base plate dimensions: 300 x 365 x 2 mm
Material: stainless steel (AISI 304)

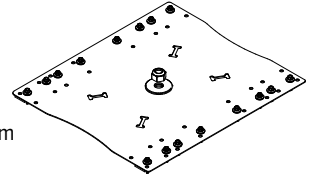


AIO | SAND-10/11/12/13

AIO-SAND-10-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 C)

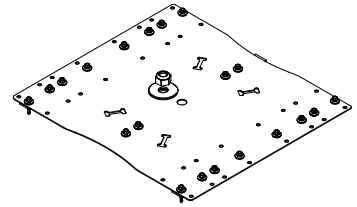
Substructure: trapezoidal sheet
Material: steel
Material thickness: min. 0.6 mm
Width of profile: 250 to 333.3 mm
Base plate dimensions: 360.5 x 415 x 2 mm
Material: stainless steel (AISI 304)



AIO-SAND-11-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 C)

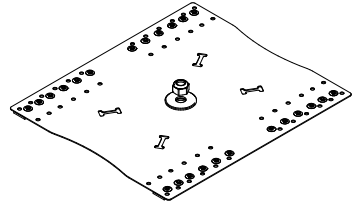
Substructure: trapezoidal sheet
Material: steel
Material thickness: min. 0.6 mm
Width of profile: 277.5 to 414 mm
Base plate dimensions: 389 x 430 x 2 mm
Material: stainless steel (AISI 304)



AIO-SAND-12-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 C)

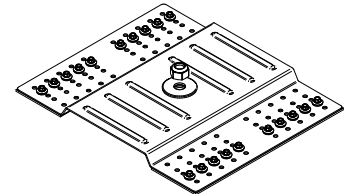
Substructure: trapezoidal sheet
Material: aluminium
Material thickness: min. 0.7 mm
Width of profile: 250 to 333.3 mm
Base plate dimensions: 360.5 x 415 x 2 mm
Material: stainless steel (AISI 304)



AIO-SAND-13-A2

SINGLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE FOR TRAPEZOIDAL SHEET (EN 795 C)

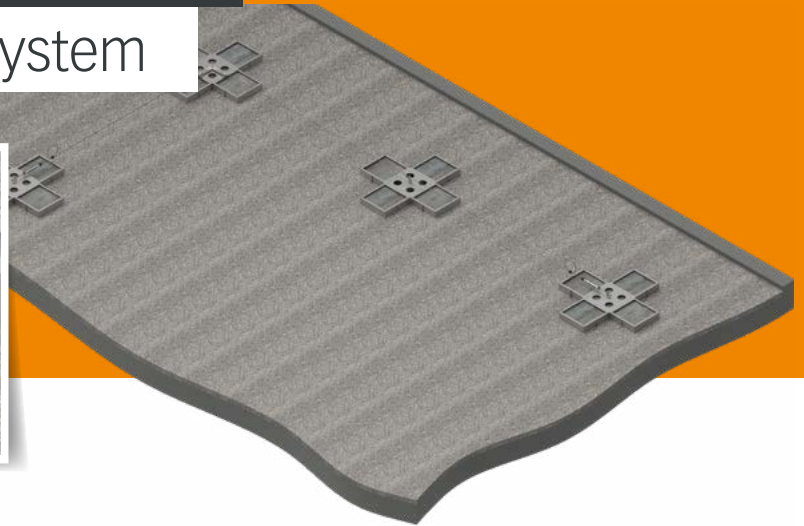
Substructure: trapezoidal sheet
Material: steel
Material thickness: min. 0.6 mm
Width of profile: 210 to 330 mm
Base plate dimensions: 300 x 365 x 2 mm
Material: stainless steel (AISI 304)



EAP/AIO

VARIO

Self supporting lifeline system



The VARIO lifeline system from INNOTECH, held by superimposed load, is a winner, especially because of its economy in two respects: The need for only a small number of screwed connections ensures rapid and simple installation.

- Single anchor point or end, corner, and intermediate post in the INNOTECH lifeline and rail system
- For flat roofs up to a pitch of 5°
- Held by superimposed load; can be filled with concrete slabs
- Quick and simple installation
- Perforation-free installation (no cold bridges); no flame or adhesive tasks are required

In addition, four viewing openings allow rapid annual inspection of the screwed connections.

- Fastening spacings up to 10 m are possible in the lifeline system
- Compact packed size
- Simple to retrofit at any time, without roof penetration
- Certification to the latest state of the art:

EN 795:2012 TYPES C and E
CEN/TS 16415:2013

Lifeline system held by superimposed load

EAP | SINGLE ANCHOR POINT VARIANTS

EAP-VARIO-15

SINGLE ANCHOR POINT - HELD BY SUPERIMPOSED LOAD,
WITH ROTATING ANCHORAGE EYE (EN 795 E)

Substructure: Flat roofs up to 5° inclination, with parapet

Dimensions: 1536 x 1536 mm

Net weight: approx. 21 kg (excluding underlay mat)

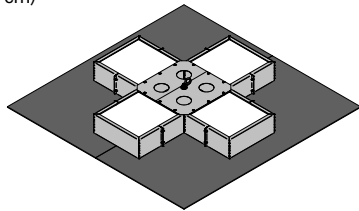
Final weight: approx. 384 - 499 kg

Filling material: Concrete or 12/15x concrete slabs (50x50x5 cm, 49x49x5 cm)

or 16/20x concrete slabs (50x50x4 cm)

Material: stainless steel (AISI 304)

Without roof perforation



AIO | LIFELINE SYSTEM VARIANTS

AIO-VARIO-45

END, CORNER, AND INTERMEDIATE POST IN THE AIO
LIFELINE SYSTEM, HELD BY SUPERIMPOSED LOAD (EN 795 C-E)

Substructure: Flat roofs up to 5° inclination, with parapet

Dimensions: 1536 x 1536 mm

Net weight: approx. 21 kg (excluding underlay mat)

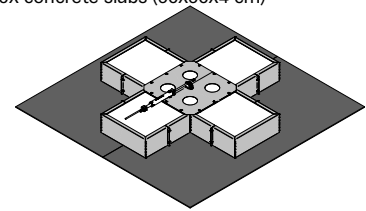
Final weight: approx. 384 - 499 kg

Filling material: Concrete or 12/15x concrete slabs

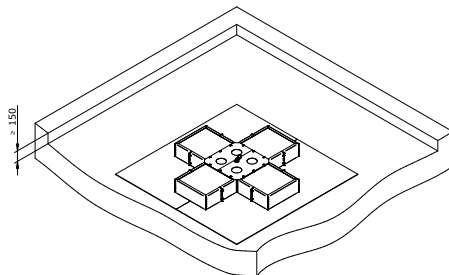
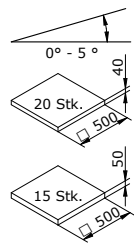
(50x50x5 cm, 49x49x5 cm) or 16/20x concrete slabs (50x50x4 cm)

Material: stainless steel (AISI 304)

Without roof perforation

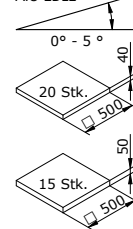


EAP | VARIO-15 (EXCLUDING GRAVEL)

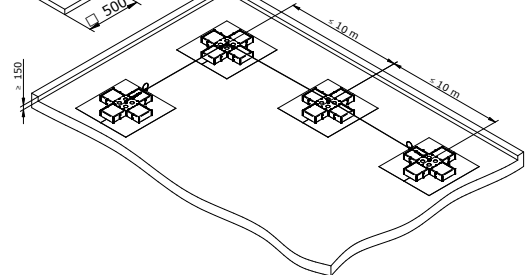
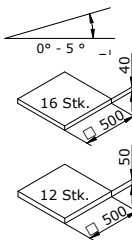


AIO | VARIO-45 (EXCLUDING GRAVEL)

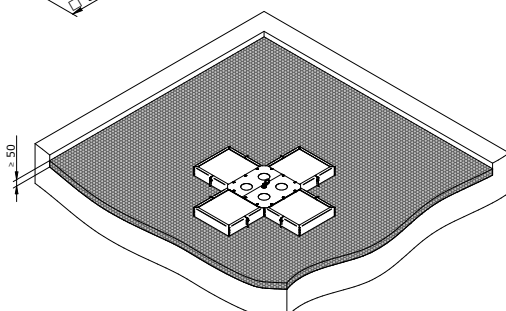
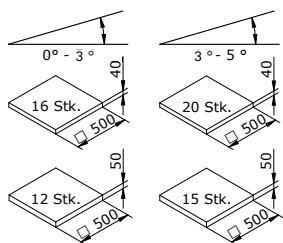
AIO-EB
AIO-EDLE



AIO-SZH

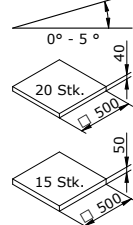


EAP | VARIO-15 (SECURED WITH GRAVEL)

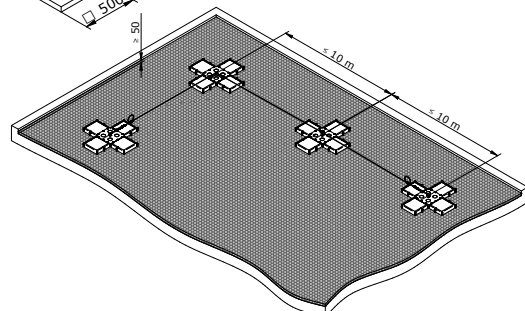
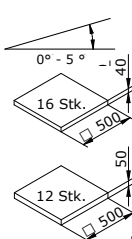


AIO | VARIO-45 (SECURED WITH GRAVEL)

AIO-EB
AIO-EDLE



AIO-SZH



INDUSTRY

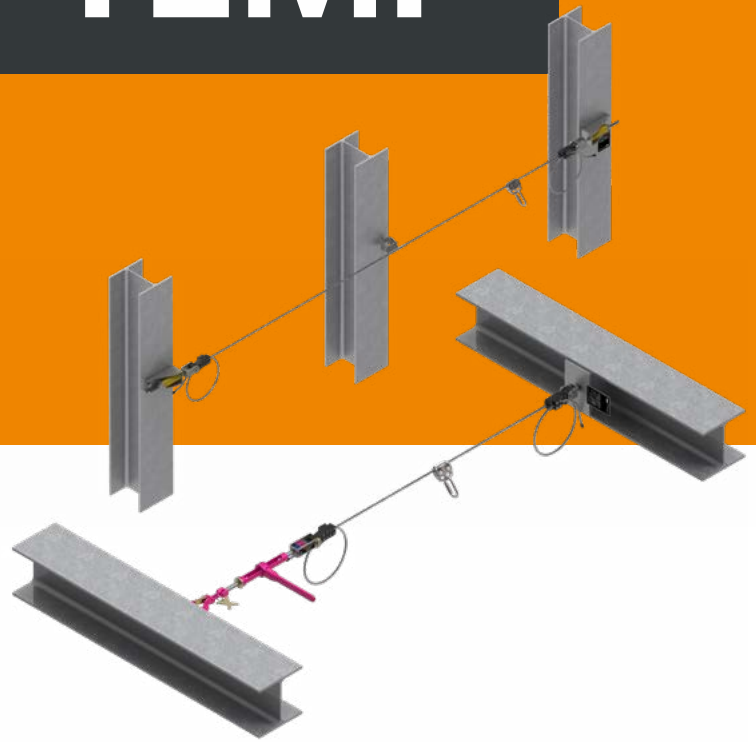
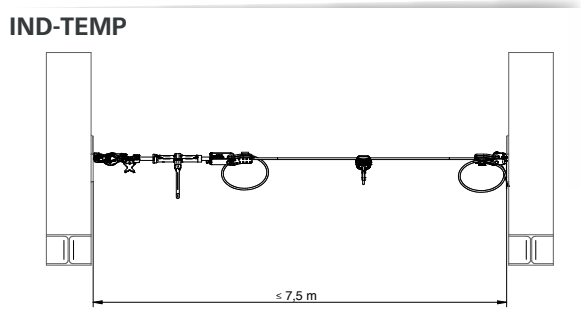
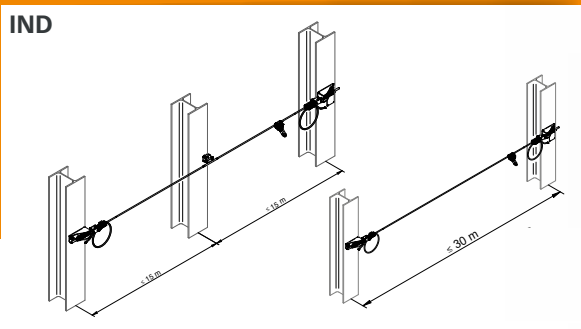
*VARIABLE
ADJUSTMENT OPTIONS
UNIQUE SOLUTIONS*

INNOTECH® Arbeitsschutz GmbH

UNIQUE SOLUTION

IND/IND-TEMP

Industry system



Temporary or permanent – a unique solution for industry:
High cable pre-tension and the compression of the intermediate bracket make reduced cable deflection possible, and therefore provide ideal protection for tasks at height in industry.

- Temporary and fixed lifeline system
- Cable diameter 10 mm
- Max. separation distance 7.5 m (temporary) or 15 m | 30 m (permanent)
- Low cable deflection thanks to high cable pre-tension and compression of the intermediate cable bracket

Economically interesting is the maximum separation distance of 15 m or 30 m for fixed systems, which furthermore creates the maximum possible freedom of movement in the system.

- Increased separation distances available upon request (only for fixed system)
- Certification to the latest state of the art:

EN 795: 2012 TYPE B/TYPE C

Industry system

TYP | RATING PLATES

IND-TYP-20

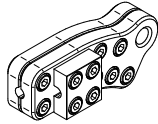
Material: Stainless steel (AISI 316), plastic
Designation: Horizontal lifeline system



ENDS | END LOCK

IND-ENDS-10

Material: stainless steel (AISI 304), aluminium (anodised)
Complete set for a cable span,
with integrated shock absorber

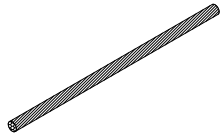


SEIL | STAINLESS STEEL CABLE

IND-SEIL-40

Material: Stainless steel (AISI 316)
Dimensions: Ø 10 mm (7 x 19)
Breaking load: 57 kN

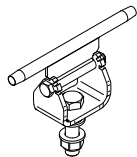
Tested for INNOTECH cable system



SZH | INTERMEDIATE BRACKET

IND-SZH-10

Material: stainless steel (AISI 304)
Substructure: steel construction
Connection: Thread M16
Function range: Variable adjustment range

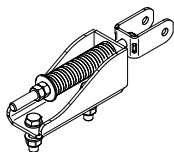


EB | END LOCK FASTENING

IND-EB-40

Material: stainless steel (AISI 304)
Substructure: steel construction
Connection: Thread M16

For bracing the lifeline system (Ø 10mm) system
using an end lock (IND-ENDS-10)

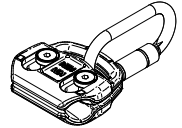


GLEIT | SLIDER

IND-GLEIT-10-A4

Material: Stainless steel (AISI 316)
Can be attached and detached at any point
in the horizontal lifeline system

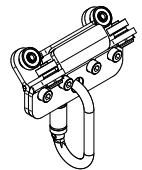
Suitable for traversing the pass-through elements
(intermediate brackets)



IND-GLEIT-11

Material: stainless steel (AISI 304)

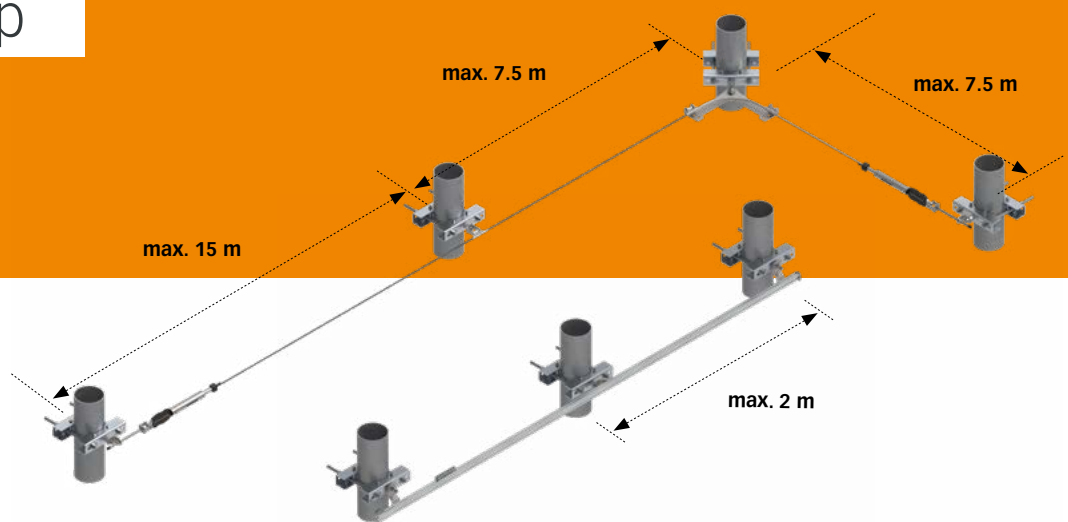
suitable for traversing the pass-through elements
in the overhead lifeline system (intermediate brackets)



FASTENING SETS

BEF-810/811

Pipe clamp



The BEF-810/811 fastening sets from INNOTECH are characterised by their high intrinsic stability. The variable adjustment options for the various clamps

guarantee perfect adaptation to the respective pipe dimensions. The clamps allow rapid and above all perforation-free installation on the respective structures.

- Fastening set for clamping to pipework structures
- The fastening sets can be used in the AIO lifeline system, the TAURUS rail system, and with EAP-SPAR-10-25 as a single anchor point
- With the ABP-10-30, also suitable for abseiling

- Fastening spacings up to 15 m max. are possible
- No penetration of the supporting structure
- Simple and fast installation
- Simple to retrofit at any time

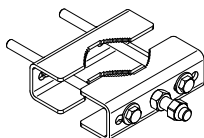
Fastening sets

BEF | FASTENING SETS

BEF-810

FASTENING SETS FOR PIPEWORK STRUCTURES

Material: galvanised steel
Diameter: ø 60 to 120 mm

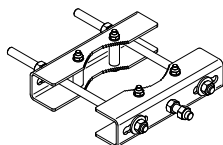


*OUR CLAMPS ALLOW RAPID AND
PERFORATION-FREE INSTALLATION
ON THE RESPECTIVE STRUCTURES.*

BEF-811

FASTENING SETS FOR PIPEWORK STRUCTURES

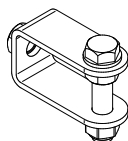
Material: galvanised steel
Diameter: ø 120 to 220 mm



BEF-810-01

FASTENING SETS FOR CORNER PASS-THROUGH ELEMENTS

Substructure: BEF-810, BEF-811, BEF-830-XX
Material: galvanised steel
Connection: Thread M16



BEF | ASSOCIATED EQUIPMENT

EAP-SPAR-10-25

FASTENING SETS FOR PIPEWORK STRUCTURES

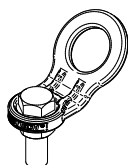
Substructure: AIO-BKS, AIO-/EAP-STA(BIL),
AIO-/EAP-SYST, AIO-/EAP-FALZ-45(-15), AIO-/EAP-SAND,
steel construction
Usable thread length: 29 mm
Thread: M16 (DIN 933, ISO 4017)
Material: stainless steel (AISI 304)
Not suitable for AIO-VARIO-45/EAP-VARIO-15, EAP-POINT-11/12



EAP-ABP-10-30

FASTENING SETS FOR PIPEWORK STRUCTURES

Substructure: Steel construction,
AIO-STA (up to max. 600 mm length),
AIO-SYST, AIO-FALZ-45, steel construction
Usable thread length: 29 mm
Thread: M16 (DIN 933, ISO 4017)
Material: stainless steel (AISI 304)

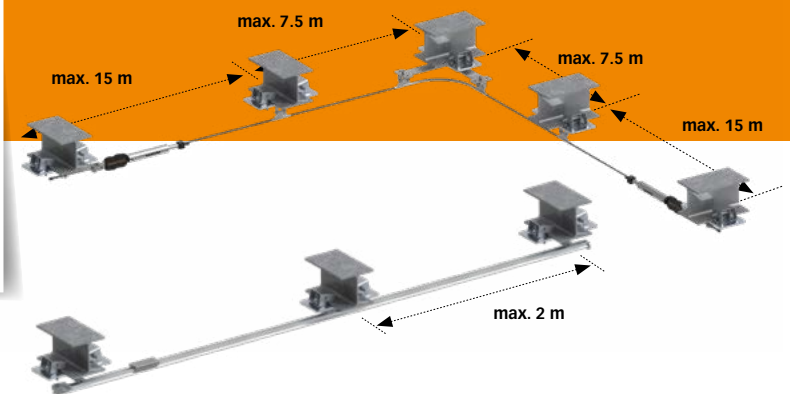


Suitable for abseiling

FASTENING SETS

BEF-830/840/841

I-beam clamp



The BEF-830/840/841 fastening sets from INNOTECH are characterised by their high intrinsic stability. The variable adjustment options for the various clamps guarantee

perfect adaptation to the respective beam dimensions. The clamps allow rapid and above all perforation-free installation on the respective structures.

- Fastening set for clamping to I-beams
- The fastening sets can be used in the AIO lifeline system, the TAURUS rail system, and with EAP-SPAR-10-25 as a single anchor point
- With the ABP-10-30, also suitable for abseiling

- Fastening spacings up to 15 m max. are possible
- No penetration of the supporting structure
- Simple and fast installation
- Simple to retrofit at any time

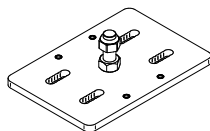
Fastening sets

BEF | FASTENING SETS

BEF-830-01

FASTENING SETS FOR I-BEAM STRUCTURES

Material: galvanised steel
Flange width: 80 to 130 mm

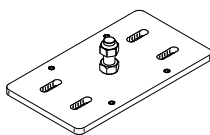


Can only be used in combination with BEF-840/841
Available on request only!

BEF-830-02

FASTENING SETS FOR I-BEAM STRUCTURES

Material: galvanised steel
Flange width: 130 to 180 mm

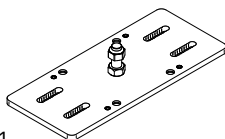


Can only be used in combination with BEF-840/841
Available on request only!

BEF-830-03

FASTENING SETS FOR I-BEAM STRUCTURES

Material: galvanised steel
Flange width: 180 to 260 mm

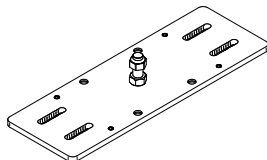


Can only be used in combination with BEF-840/841

BEF-830-04

FASTENING SETS FOR I-BEAM STRUCTURES

Material: galvanised steel
Flange width: 260 to 350 mm

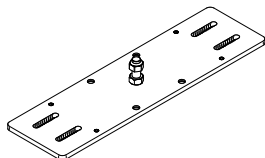


Can only be used in combination with BEF-840/841

BEF-830-05

FASTENING SETS FOR I-BEAM STRUCTURES

Material: galvanised steel
Flange width: 350 to 450 mm



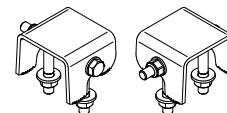
Can only be used in combination with BEF-840/841

FASTENING SETS

BEF-840

FASTENING SETS FOR BEF-830-XX

Material: galvanised steel
Thickness: 8 to 26 mm

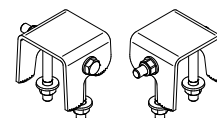


Can only be used in combination with BEF-830-01/02/03/04/05

BEF-841

FASTENING SETS FOR BEF-830-XX

Material: galvanised steel
Thickness: 24 to 40 mm

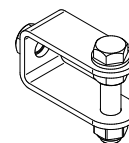


Can only be used in combination with BEF-830-01/02/03/04/05

BEF-810-1

ADAPTER BRACKET FOR CORNER PASS-THROUGH ELEMENTS

Substructure: BEF-810, BEF-811, BEF-830-XX
Material: galvanised steel
Connection: Thread M16



RAIL SYSTEMS

*HIGH-QUALITY DESIGN
MAINTENANCE-FREE:
FLEXIBLE IN USE*

TAURUS rail system

SIMPLE TO INSTALL

TAURUS

Rail system



The TAURUS flexible rail system from INNOTECH for all substructures provides people in fall-risk locations with the option of securing themselves optimally to the mobile anchor point or to the guided type fall arrester. Manoeuvrable rail connections and end units can be installed very simply, and optionally available curve and

bent elements adapt perfectly to the actual constructional conditions. Three different sliders ensure unimpeded movement along the entire length of rail: The "Speed Control", an automatic delay unit in the ALLROUND system, recognises fall speeds immediately. Should a fall occur, the "Allround" slider blocks immediately in all directions.

- Flexible rail system for every construction form indoors and outdoors
- Maximum freedom of movement along the entire length of rail
- With corresponding rail slider, also suitable for abseiling tasks
- Wide fastening spacing possible on all substructures
- Top-quality design, available in all colour styles
- Various slider types with ball bearings: horizontal, vertical, and Allround sliders
- The Allround slider blocks in all directions, traverses curves and bends horizontally and vertically.
- SPEED CONTROL
The Allround slider is fitted with an automatic delay unit which, in the event of a fall, triggers immediately at a defined speed.

- MAINTENANCE-FREE
The use of enclosed ball bearings means that the rail sliders do not require maintenance.
- Certification to the latest state of the art:

Horizontal system:
EN 795:2012 TYPE D
CEN/TS 16415:2013

Vertical system:
already certified to the new standard EN 353-1:2014

Allround system:
EN 795:2012 TYPE D
CEN/TS 16415:2013
EN 353-1:2014

Horizontal rail system

Wide fastening spacing possible on all substructures

Various slider types with ball bearings:
Horizontal, vertical and Allround sliders.

With corresponding rail slider, also suitable for abseiling tasks.

TYP | RATING PLATE

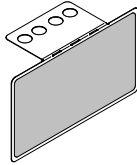
TAURUS-TYP-10

TAURUS RATING PLATE, HORIZONTAL (EN 795 D)

Material: Stainless steel (AISI 316), plastic
Dimensions: 160 x 92 mm

For the identification of a horizontal rail system

Various fastening options



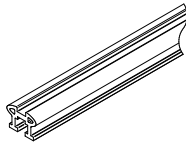
RAIL | RAIL

TAURUS-RAIL-10

ALUMINIUM RAIL, STRAIGHT RUN

Material: aluminium
L = 3000 mm/6000 mm

Rail element with straight run



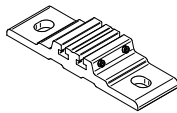
BEF | RAIL FASTENERS

TAURUS-BEF-10

RAIL FASTENER FOR CONCRETE

Material: aluminium
Substructure: Concrete, facade, steel construction

for fastening TAURUS-RAIL to concrete, facade, and steel construction

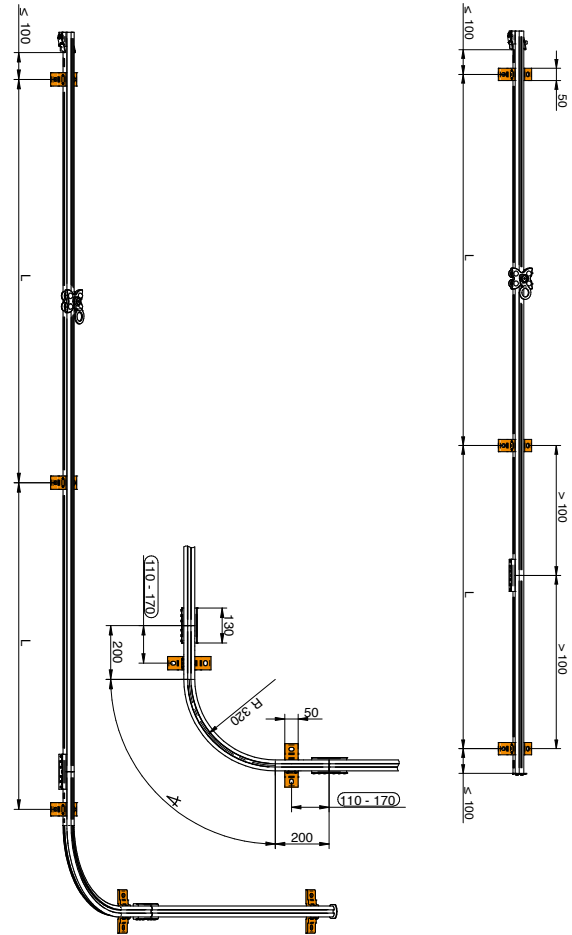
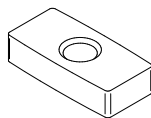


TAURUS-BEF-12

RAIL FASTENER, STEEL CONSTRUCTION,
SLIDING NUT M10

Material: stainless steel (AISI 304)
Substructure: steel construction

for fastening TAURUS-RAIL to steel construction

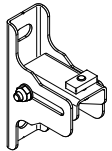


RAIL FASTENER

TAURUS-BEF-20

RAIL FASTENER FOR FACADE

Substructure: Concrete, facade
Hole spacing: 120 mm
Fastening for concrete: by means of 2x adhesive anchors
Fastening depth for concrete: min. 100 mm
Material: stainless steel (AISI 304)



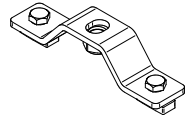
for fastening TAURUS-RAIL to concrete and facade

TAURUS-BEF-21

RAIL FASTENER

Material: stainless steel (AISI 304)
Substructure: Concrete, steel construction
Fastening depth for concrete: min. 125 mm

for fastening TAURUS-RAIL to concrete and steel construction

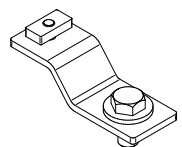


TAURUS-BEF-30

RAIL FASTENER, FASTENING ANGLE

Substructure: AIO-STA post
Material: stainless steel (AISI 304)

for attaching TAURUS-RAIL to an AIO-STA post

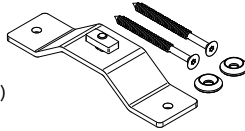


RAIL FASTENER

TAURUS-BEF-41 RAIL FASTENER FOR WOOD

Material: stainless steel (AISI 304)
 Substructure: Wood
 (min. 16/16 cm or as per installation instructions)

for attaching TAURUS-RAIL to wood

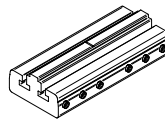


VB | RAIL CONNECTOR

TAURUS-VB-10 RAIL CONNECTOR

Material: aluminium

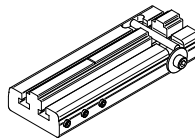
Connector for two TAURUS-RAIL rail elements



TAURUS-VB-11 RAIL CONNECTOR

Material: aluminium

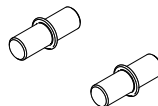
Connector for two TAURUS-RAIL rail elements,
 with expansion compensation



TAURUS-VB-12 RAIL CONNECTION

Material: galvanised steel

for the alignment of two TAURUS-RAIL rail elements
 must be used only in combination with TAURUS BEF-12.

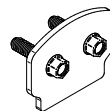


EA | RAIL END UNITS

TAURUS-EA-10 RAIL END UNIT, FIXED

Material: stainless steel (AISI 304)

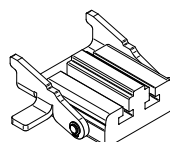
no entry possible (end unit for a rail section)



TAURUS-EA-11 RAIL END UNIT, VARIABLE

Material: Stainless steel (AISI 304), aluminium

Entry/exit for TAURUS-GLEIT

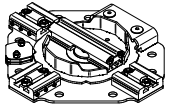


DW | TURNTABLE GATE

TAURUS-DW-10 RAIL TURNTABLE GATE

Material: aluminium, stainless steel (AISI 304)
 Turning hub for an additional rail access
 (T-application, 2 x 90°).

Can be used in combination with the TAURUS-EB-11 as an exit/entry,
 without having to interrupt the track run.

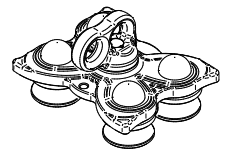


GLEIT | RAIL SLIDER

TAURUS-GLEIT-H-11 RAIL SLIDER, HORIZONTAL (EN 795 D)

Material: stainless steel (AISI 304)
 Inclination range: +/- 5°

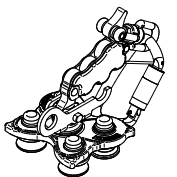
Suitable for overhead systems



TAURUS-GLEIT-A-31 RAIL SLIDER, ALLROUND (EN 353-1/EN 795)

Material: stainless steel (AISI 304)

Rail slider with shock-absorbing element for vertical use,
 and an additional anchorage eye for horizontal use

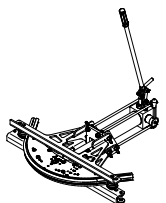


INSTALLATION ACCESSORY

TAURUS-BEND-10 TAURUS BENDING DEVICE FOR TAURUS-RAIL

Bending angle: 0° - 85°

Flexible installation of the rails directly on site.
 Space saving packaging in a case and easy to transport.



Vertical rail system

Wide fastening spacing possible on all substructures.

Various slider types with ball bearings:
Horizontal, vertical and Allround sliders.

With corresponding rail slider, also suitable for abseiling tasks.

TYP | RATING PLATE

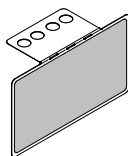
TAURUS-TYP-20

TAURUS RATING PLATE, VERTICAL (EN 353-1)

Material: Stainless steel (AISI 316), plastic

For the identification of a vertical rail system

Various fastening options



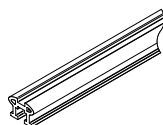
RAIL | RAIL

TAURUS-RAIL-10

ALUMINIUM RAIL, STRAIGHT RUN

Material: aluminium
L = 3000 mm/6000 mm

Rail element with straight run



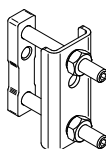
BEF | RAIL FASTENERS

TAURUS-BEF-90

RAIL FASTENER FOR LADDER

Material: stainless steel (AISI 304)
Substructure: ladder rung. Rung dimension: max. Ø 45 mm

for attaching TAURUS-RAIL to ladders



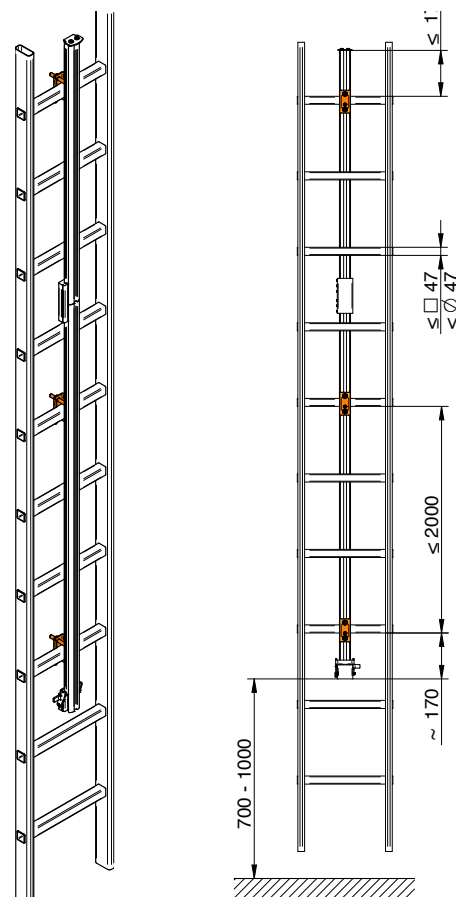
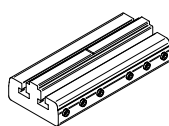
VB | RAIL CONNECTOR

TAURUS-VB-10

RAIL CONNECTOR

Material: aluminium

Connector for two TAURUS-RAIL rail elements



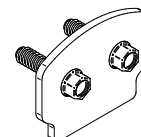
EA | RAIL END UNITS

TAURUS-EA-10

RAIL END UNIT, FIXED

Material: stainless steel (AISI 304)

No entry possible
(end unit for a rail section)

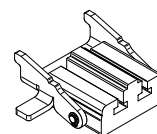


TAURUS-EA-11

RAIL END UNIT, VARIABLE

Material: Stainless steel (AISI 304), aluminium

Entry/exit for TAURUS-GLEIT

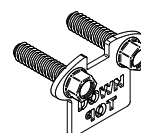


TAURUS-EA-21

RAIL ENTRY PLATE, FIXED

Material: stainless steel (AISI 304),

Entry plate for TAURUS-GLEIT-V-21



STEP | ASCENT LADDER

TAURUS-STEP

RAIL SYSTEM WITH INTEGRATED ASCENT AID

Material: aluminium.
Substructure: Concrete, steel, etc.

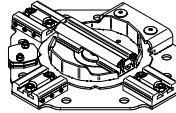
The TAURUS-STEP system is connected to the facade/substructure (steel, concrete, etc.) using a fastening bracket, and serves as an ascent aid.



DW | TURNING HUB

TAURUS-DW-10 RAIL CONNECTOR

Material: aluminium, stainless steel (AISI 304)
 Turning hub for an additional rail access
 (T-application, 2 x 90°).

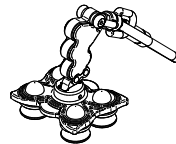


Can be used in combination with the TAURUS-EB-11 as an exit/entry, without having to interrupt the track run.

GLEIT | RAIL SLIDER

TAURUS-GLEIT-V-21 RAIL SLIDER, VERTICAL (EN 353-1)

Material: stainless steel (AISI 304)
 Inclination range: +/- 3°

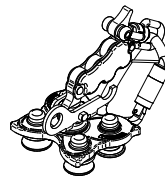


Rail slider for vertical use including shock-absorbing element

TAURUS-GLEIT-A-31 RAIL SLIDER, ALLROUND (EN 353-1/EN 795 D)

Material: stainless steel (AISI 304)

Rail slider with shock-absorbing element for vertical use, and an additional anchorage eye for horizontal use

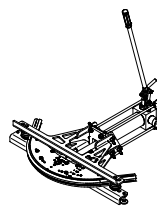


INSTALLATION ACCESSORY

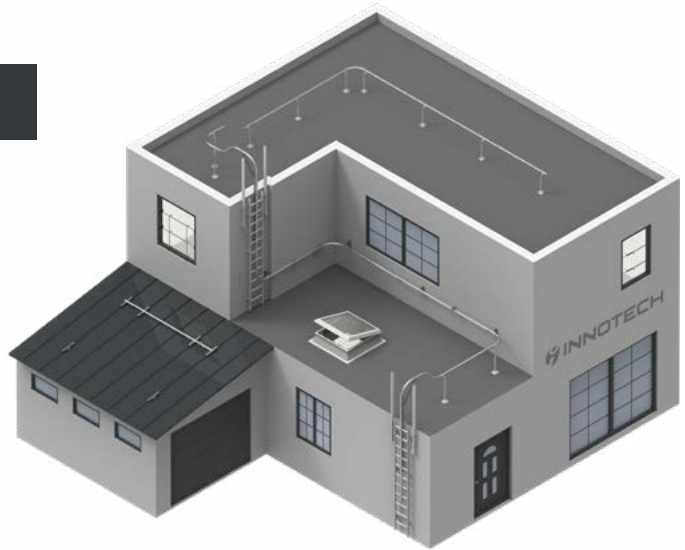
TAURUS-BEND-10 TAURUS BENDING DEVICE FOR TAURUS-RAIL

Bending angle: 0° - 85°

Flexible installation of the rails directly on site.
 Space saving packaging in a case and easy to transport.



Allround rail system



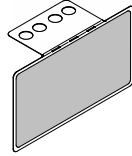
TYP | RATING PLATE

TAURUS-TYP-30

TAURUS RATING PLATE, ALLROUND (EN 353-1/EN 795 D)

Material: Stainless steel (AISI 316), plastic
Dimensions: 160 x 92 mm

For the identification of an Allround rail system
(vertical and horizontal)
Various fastening options

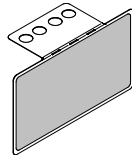


TAURUS-TYP-35

TAURUS INFORMATION SIGN (EN 353-1/EN 795 D)

Material: Stainless steel (AISI 316), plastic
Dimensions: 160 x 92 mm

Information sign for an Allround rail system (vertical and horizontal); it is installed at the changeover from vertical to horizontal



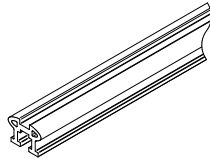
RAIL | RAIL

TAURUS-RAIL-10

ALUMINIUM RAIL, STRAIGHT RUN

Material: aluminium
L = 3000 mm/6000 mm

Rail element with straight run



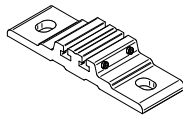
BEF | RAIL FASTENERS

TAURUS-BEF-10

RAIL FASTENER FOR CONCRETE

Material: aluminium
Substructure: Concrete, facade, steel construction

for fastening TAURUS-RAIL to concrete, facade, and steel construction

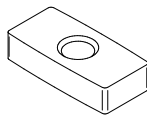


TAURUS-BEF-12

RAIL FASTENER, STEEL CONSTRUCTION, SLIDING NUT M10

Material: stainless steel (AISI 304)
Substructure: steel construction

for fastening TAURUS-RAIL to steel construction

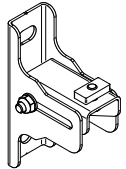


RAIL FASTENER

TAURUS-BEF-20

RAIL FASTENER FOR FACADE

Substructure: Concrete, facade
Hole spacing: 120 mm
Fastening for concrete: by means of 2x adhesive anchors
Fastening depth for concrete: min. 100 mm
Material: stainless steel (AISI 304)

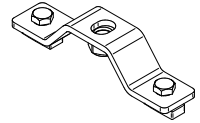


for fastening TAURUS-RAIL to concrete and facade

TAURUS-BEF-21

RAIL FASTENER

Material: stainless steel (AISI 304)
Substructure: Concrete, steel construction
Fastening depth for concrete: min. 125 mm



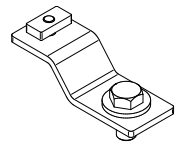
for fastening TAURUS-RAIL to concrete and steel construction

TAURUS-BEF-30

RAIL FASTENER, FASTENING ANGLE

Substructure: AIO-STA post
Material: stainless steel (AISI 304)

for attaching TAURUS-RAIL to an AIO-STA post

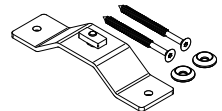


TAURUS-BEF-41

RAIL FASTENER FOR WOOD

Material: stainless steel (AISI 304)
Substructure: Wood
(min. 16/16 cm or as per installation instructions)

for attaching TAURUS-RAIL to wood

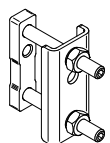


TAURUS-BEF-90

RAIL FASTENER FOR LADDER

Material: stainless steel (AISI 304)
Substructure: ladder rung. Rung dimension: max. Ø 45 mm

for attaching TAURUS-RAIL to ladders

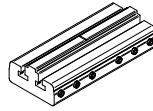


VB | RAIL CONNECTOR

TAURUS-VB-10 RAIL CONNECTOR

Material: aluminium

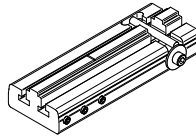
Connector for two TAURUS-RAIL rail elements



TAURUS-VB-11 RAIL CONNECTOR

Material: aluminium

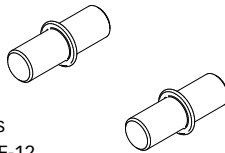
Connector for two TAURUS-RAIL rail elements, with expansion compensation



TAURUS-VB-12 RAIL CONNECTION

Material: galvanised steel

for the alignment of two TAURUS-RAIL rail elements must be used only in combination with TAURUS BEF-12.

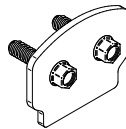


EA | RAIL END UNITS

TAURUS-EA-10 RAIL END UNIT, FIXED

Material: stainless steel (AISI 304)

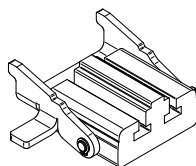
no entry possible (end unit for a rail section)



TAURUS-EA-11 RAIL END UNIT, VARIABLE

Material: Stainless steel (AISI 304), aluminium

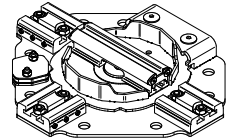
Entry/exit for TAURUS-GLEIT



DW | TURNING HUB

TAURUS-DW-10 RAIL CONNECTOR

Material: aluminium, stainless steel (AISI 304)
Turning hub for an additional rail access (T-application, 2 x 90°).



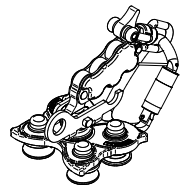
Can be used in combination with the TAURUS-EB-11 as an exit/entry, without having to interrupt the track run.

GLEIT | RAIL SLIDER

TAURUS-GLEIT-A-31 RAIL SLIDER, ALLROUND (EN 353-1/EN 795 D)

Material: stainless steel (AISI 304)

Rail slider with shock-absorbing element for vertical use, and an additional anchorage eye for horizontal use

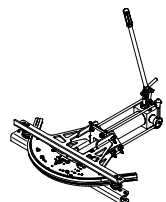


INSTALLATION ACCESSORY

TAURUS-BEND-10 TAURUS BENDING DEVICE FOR TAURUS-RAIL

Bending angle: 0° - 85°

Flexible installation of the rails directly on site.
Space saving packaging in a case and easy to transport.



PERFECT INTEGRATION
THROUGH INDIVIDUAL COLOUR SELECTION

TAURUS

Rail system

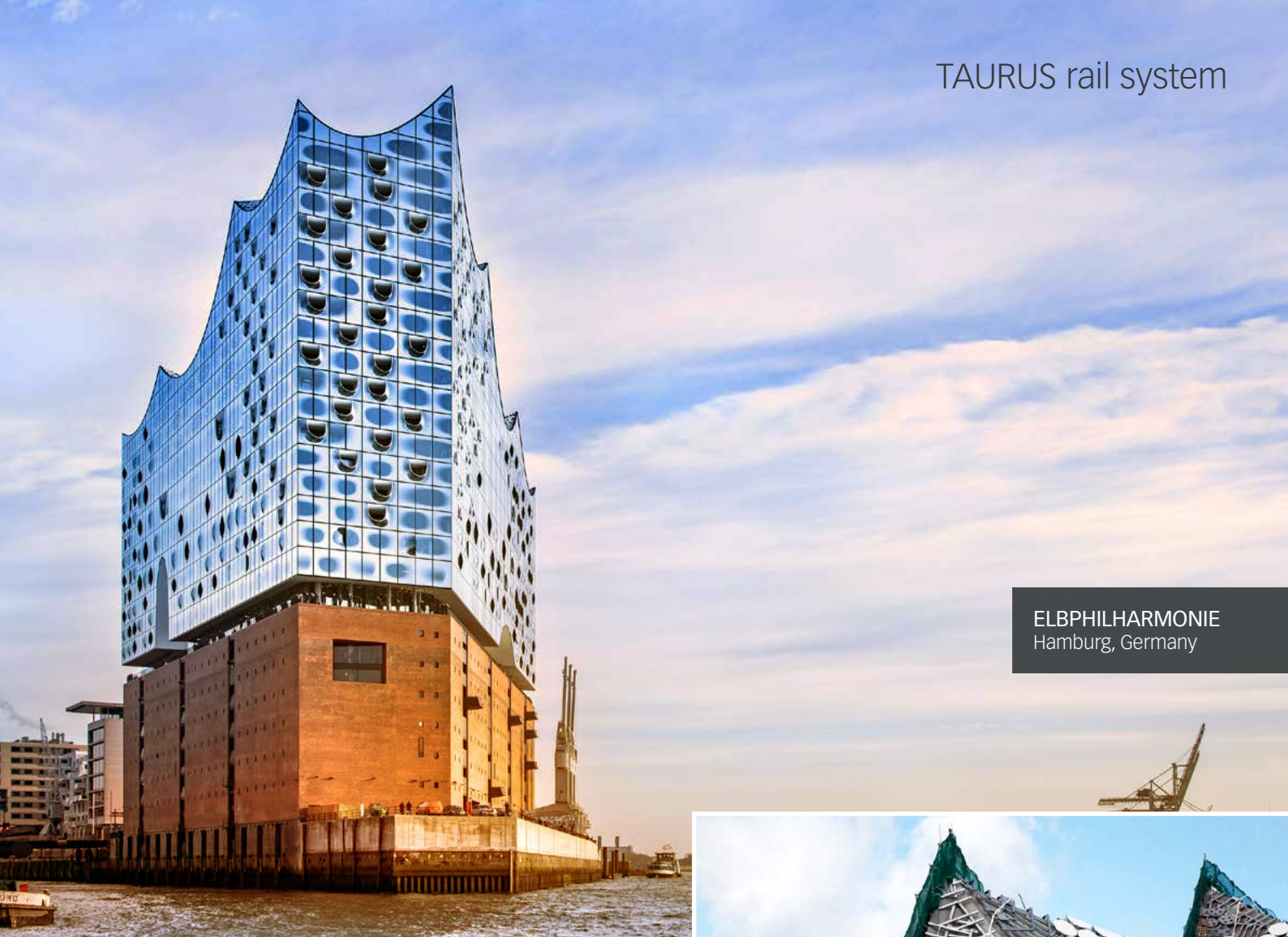
- For indoors & outdoors.
- Can be used on all substructures.
- Individual colour selection means perfect integration with the architecture.
- Various curves and torsions possible.
- Maximum freedom of movement along the entire length of rail.



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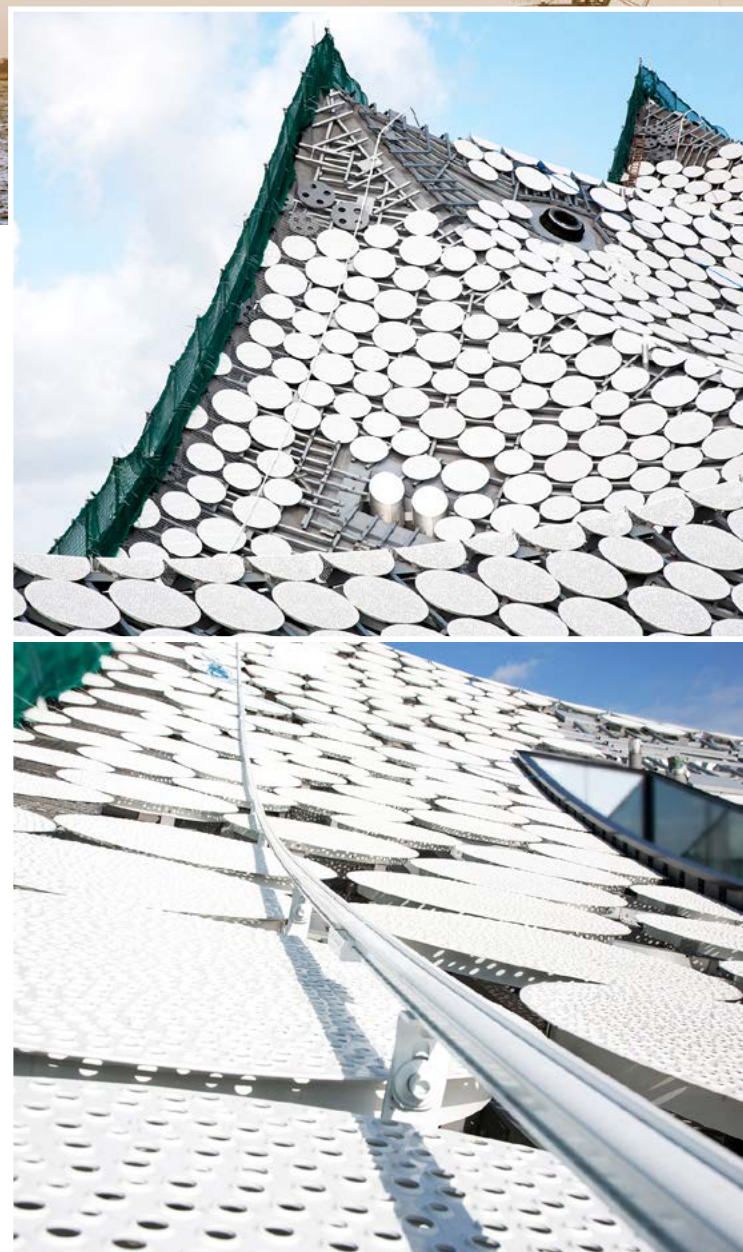
ELBPHILHARMONIE
Hamburg, Germany

490 METRE RUN OF TAURUS RAIL, PLUS
AROUND 400 FASTENERS

– an individualised high-tech fall protection system as
a special solution from INNOTECH.

The TAURUS rail system guarantees the safety of all people
who have to climb to perform cleaning and maintenance
work on the roof of the Elbphilharmonie building.

The complex waveform of the architect's freely drawn
lines required the development of a special system, in
order to fulfil the most demanding safety requirements.
Specially curved rails were therefore planned, and
these cling to the multi-curved roof form like a second
skin. A special rail connector was also developed; this
accommodates the greater heat expansion of the
aluminium, and protects the extensive system against
possible damage from solar radiation.



TAURUS rail system

INDIVIDUAL RANGE OF COLOURS
AND MAXIMUM FREEDOM OF MOVEMENT



A specially developed slider “floats” along the system and ensures completely unhindered movement, even on inclined surfaces of this type.

The people working on the roof do not have to inconveniently attach or detach themselves from the system, and they are able to move completely freely along the entire edge of the roof.



DETACHABLE

TAURUS-SCE

Shaft entry



The INNOTECH product range has been extended by the TAURUS shaft entry. The removable, mobile push-on support provides the user with a safe entry into the danger area.

- Safe entry and seamless transition without attaching into or detaching from the vertical descent system
- Easy to transport
- Rapid installation on the ladder or directly into the substructure
- One mobile push-on support can be used for several shafts

The optional rescue and recovery function provides a further use, as well as additional safety for the user.

- Certified rescue and recovery function
- Fall arrest device with rescue lifting device (type: IKAR: 41-HRA-12)
- Certified to the latest state of the art:

EN 353-1:2014
EN 795:2012 Type A
EN 19572:2016

Shaft entry

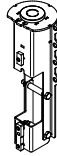
TAURUS | TAURUS

TAURUS SCE-50-A4

SHAFT BRACKET

Material: Stainless steel (AISI 316), plastic

Shaft bracket for fastening to ladder rungs
or directly into the substructure;
Use only in combination with the mobile push-on support



*THE MOBILE PUSH-ON SUPPORT
PROVIDES A SAFE ENTRY
INTO THE DANGER AREA.*

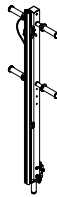
TAURUS / Shaft entry

TAURUS-SCE-10

MOBILE PUSH-ON SUPPORT

Material: Stainless steel (AISI 316) aluminium, plastic

Mobile push-on support for safe shaft entry;
use only in combination with the shaft bracket

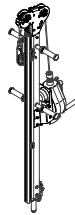


TAURUS-SCE-20

RESCUE ATTACHMENT

Material: Stainless steel (AISI 316) aluminium, plastic

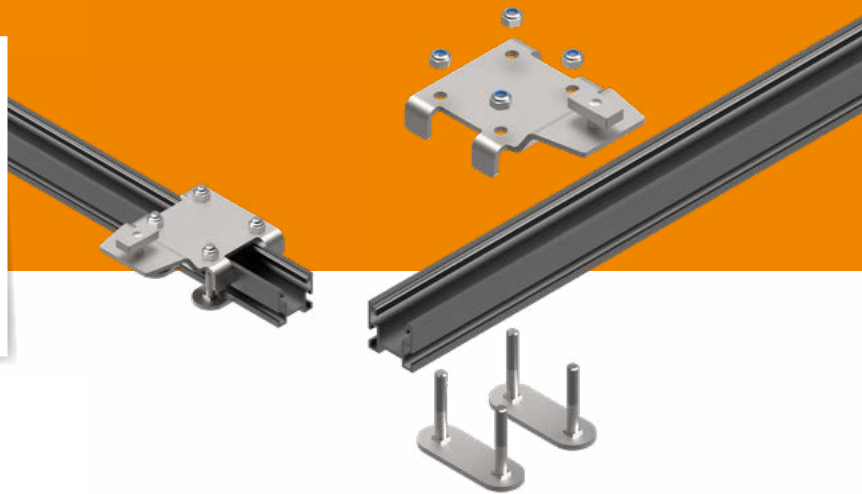
Rescue attachment for connecting a fall arrest device
with rescue lifting device (TYPE: IKAR-41-HRA-12) to
the mobile push-on support by means of a holding bracket;
Use only in combination with the mobile push-on support
(TAURUS-SCE-10)



INNOTECH & K2

TAURUS-K2

Fall protection for K2 installation systems



The proven combination of the TAURUS rail system from INNOTECH with K2 installation systems provides people in fall-risk locations with the ability to protect themselves optimally using the guided-type TAURUS rail slider.

- Rapid and simple handling
- No shading, therefore optimum utilisation
- A space-saving system with optimum surface utilisation
- No roof perforation, thanks to superimposed load installation system
- Maximum freedom of movement along the entire length of rail

This simple system can be used flexibly on the well-known K2 S-Dome and D-Dome Classic – without the use of special tools.

- Because of the high intrinsic stability of TAURUS, optimum load distribution into the K2 substructure is possible.
- Max. fastening spacing every 2.1 m.
- Certification to the latest state of the art:

EN 795:2012 types D and E
CEN/TS 16415:2017

INNOTECH & K2

TAURUS | TAURUS

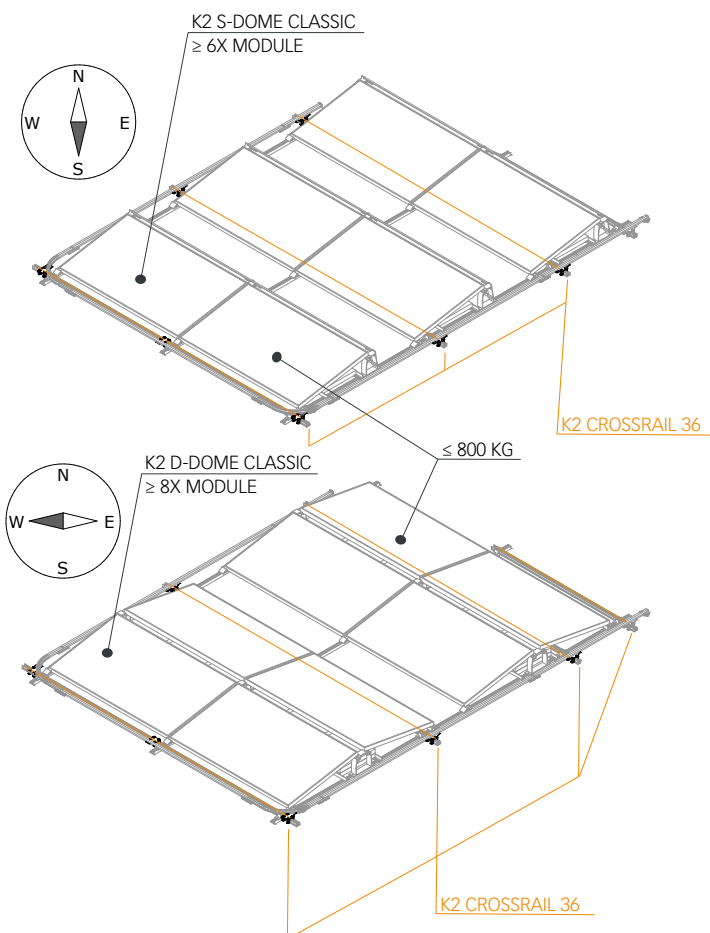
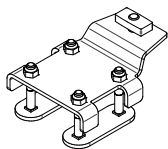
TAURUS-BEF-50

RAIL FASTENER BEF-50 FOR RAIL SYSTEMS

Substructure: K2 CrossRail 36

Material: stainless steel (AISI 304)

for attaching TAURUS-RAIL to
K2 solar substructures



GUARDRAIL SYSTEM ENCLOSURE

SAFE
UNCOMPLICATED
ECONOMICAL

INNOTECH® Arbeitsschutz GmbH

THE NEW BARRIER
 GREATER SPEED, ECONOMY, SAFETY

BARRIER

Guardrail system



The optimised BARRIER guardrail system from INNOTECH provides many varied application options in collective side protection, because it adapts optimally to individual construction conditions. The consistent optimisation of the individual components made it possible to improve the functionality and to significantly reduce the installation time. The uncomplicated, quick assembly and the option of

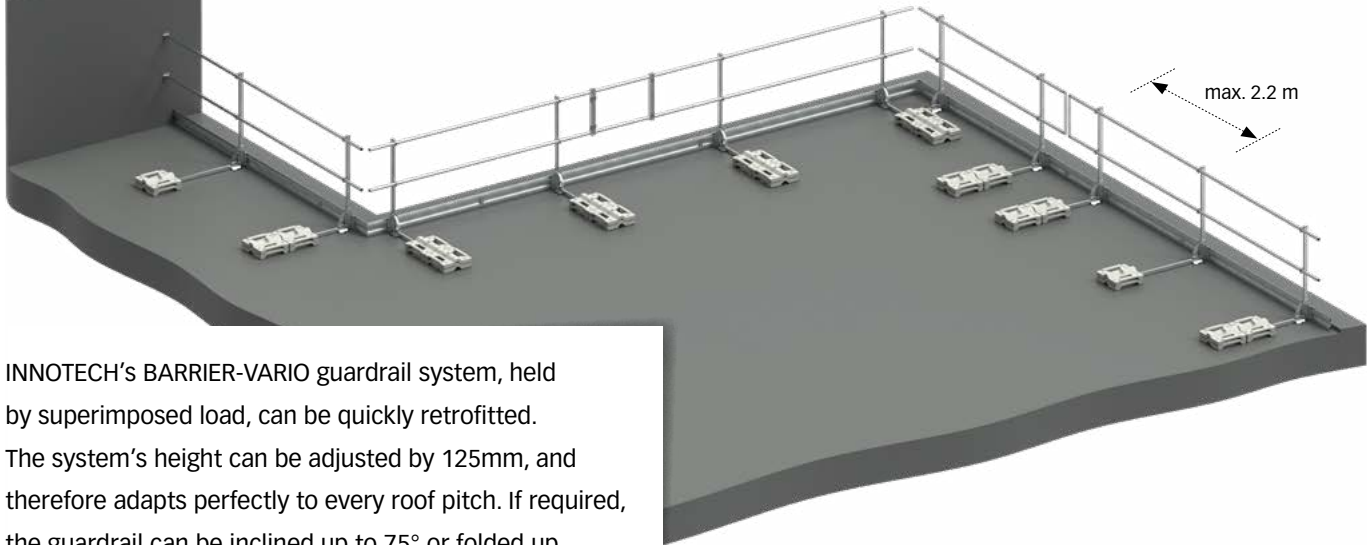
installing without roof perforation thus make the product a flexible all-rounder which perfectly blends in with the building's aesthetics in an extremely pleasing way. The high-quality railings are manufactured from weather-resistant aluminium, and fulfil the most demanding architectural requirements, through a varyingly adjustable inclination.

- Universal penetration-free application options
- Short installation time and simple assembly without creation of shavings
- Low superimposed load, thanks to maximum post separation of 2.2 m
- Pitch adjustable to 90° and 75°; hinged at 15°
- 100% plasticiser-free (integrated release layer)
- Attachment possible to standing seam and trapezoidal supporting sheet

- Concrete weight 2x 12.5 kg; stackable, ergonomic carrying system
- 3 standardised coating levels possible
- Differences in level up to 125mm can be compensated perfectly
- Inspection interval: 2 years
- Certification to the latest state of the art:

EN 13374:2019
 EN ISO 14122-3:2016
 DIN 14094-2:2017

System Vario



INNOTECH's BARRIER-VARIO guardrail system, held by superimposed load, can be quickly retrofitted. The system's height can be adjusted by 125mm, and therefore adapts perfectly to every roof pitch. If required, the guardrail can be inclined up to 75° or folded up, and so the system fits outstandingly well into the constructional circumstances.

SYSTEM VARIO

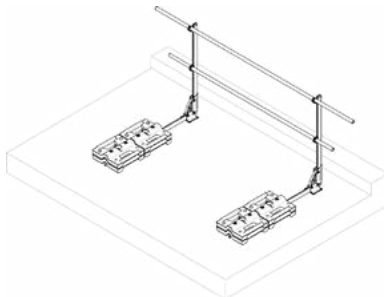
BARRIER VARIO

GUARDRAIL SYSTEM – HELD BY SUPERIMPOSED LOAD

Material: aluminium, stainless steel (AISI 304)
Substructure: Flat roof (max. 10° roof pitch)
System pitch angle (pre-assembled): 90°, 75°

Without roof perforation

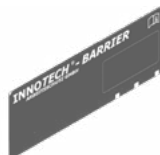
Boom with post and concrete weight (2 x 12.5 kg) with carrying handles



RATING PLATE

BARRIER-Z11

RATING PLATE FOR BARRIER
(EN 13374/EN ISO 14122-3/DIN 14094-2)



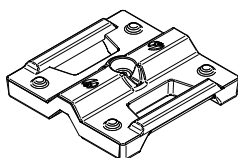
FOOT ELEMENT

BARRIER-V20

VARIO WEIGHT

Height x Width x Length: 93 x 390 x 390 mm
Weight: 12.5 kg
Material: Concrete

Concrete weight for BARRIER-V12 foot unit



FOOT ELEMENT

BARRIER-S22-450

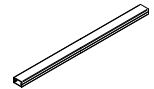
VARIO BOOM

Length: 450 mm

Material: aluminium

Standard boom for VARIO system, corner set

Special lengths upon request



BARRIER-S22-1300

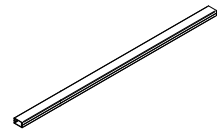
VARIO BOOM

Length: 1300 mm

Material: aluminium

Standard boom for VARIO system,
Escape route as per plan

Special lengths upon request



BARRIER-S22-1500

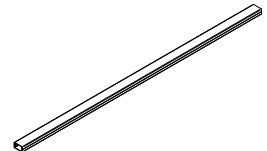
VARIO BOOM

Length: 1500 mm

Material: aluminium

Standard boom for VARIO superimposed load.

Special lengths upon request

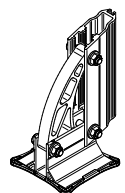


BARRIER-V12

VARIO-FOOT UNIT

Material: Aluminium, stainless steel (AISI 304), plastic

VARIO foot unit without boom/post, for creation of a collective side protection held by superimposed load, including protective plate

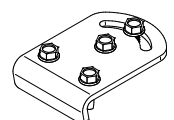


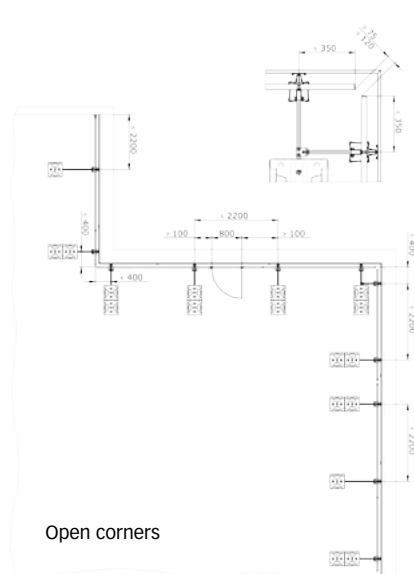
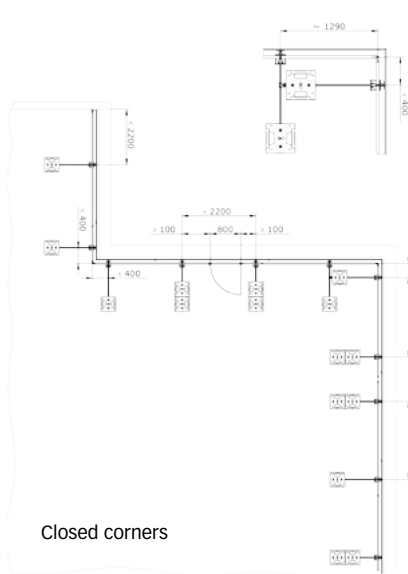
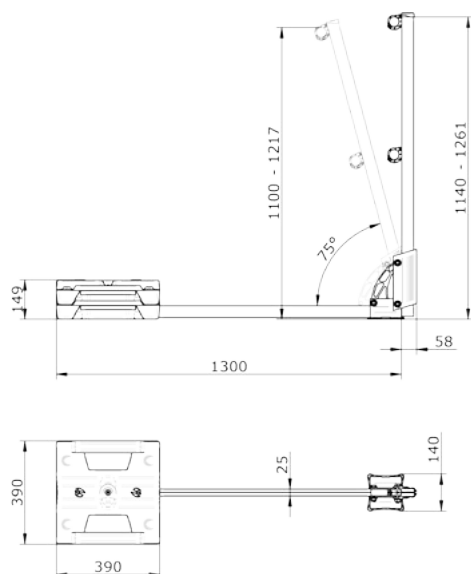
BARRIER-V92

VARIO-CORNER TIE

Material: stainless steel (AISI 304)

For the connection of two BARRIER-S22 booms





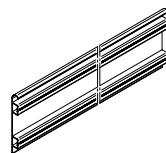
TOE BOARD

BARRIER-F20

TOE BOARD

Height x Width x Length: 170 x 20 x 3000 mm

Material: aluminium

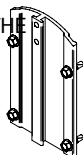


Suitable for use with BARRIER-S20/S21 post and VARIO BARRIER-V12 foot unit, when no parapet higher than 150mm present.

BARRIER-F22

TOE BOARD BRACKET FOR FASTENING THE TOE BOARD TO THE VARIO BARRIER-V12 FOOT UNIT

Material: aluminium, stainless steel (AISI 304)

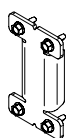


for fastening the BARRIER-F20 toe board to the VARIO BARRIER-V12 foot unit

BARRIER-F23

TOE BOARD CONNECTOR SET

Material: aluminium, stainless steel (AISI 304)



for connecting two BARRIER-F20 toe boards

POST

BARRIER-S20-1140

POST, VARIO SYSTEM, STRAIGHT

Length: 1080 mm

Material: Aluminium/zinc, stainless steel



Standard post for VARIO system including pipe bracket.

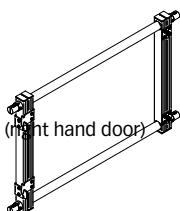
DOOR

BARRIER-T30

DOOR SET

Material: aluminium

Opening 800 mm, fixed attachment point, not selectable (right hand door)



When used with superimposed load, 4x BARRIER-V20 weights required on each side

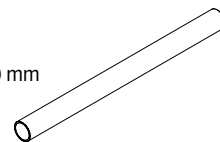
HANDRAIL

BARRIER-R11

ALUMINIUM PIPE, STRAIGHT

Diameter x Wall thickness x Length: 36 x 2.5 x 3000 mm

Material: aluminium



BARRIER-R21

LINEAR TIE

Material: aluminium, stainless steel (AISI 304)

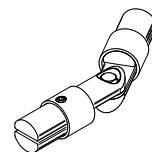


For connection of two BARRIER-R11 pipes

BARRIER-R31

CORNER TIE

Material: Aluminium, plastic



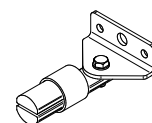
For creating a corner with two BARRIER-R11 pipes
Variably adjustable angle

BARRIER-R41

WALL TIE

Substructure: Concrete, steel construction

Material: Aluminium, plastic

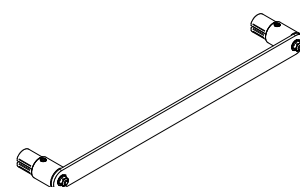


Variably adjustable angle

BARRIER-R51

END SEAL

Material: aluminium



End seal for two BARRIER-R11 pipes
Projection of pipe max. 500 mm

BARRIER-R91

CAP FOR BARRIER-R11 ALUMINIUM PIPE

Diameter x thickness: 36 x 2 mm

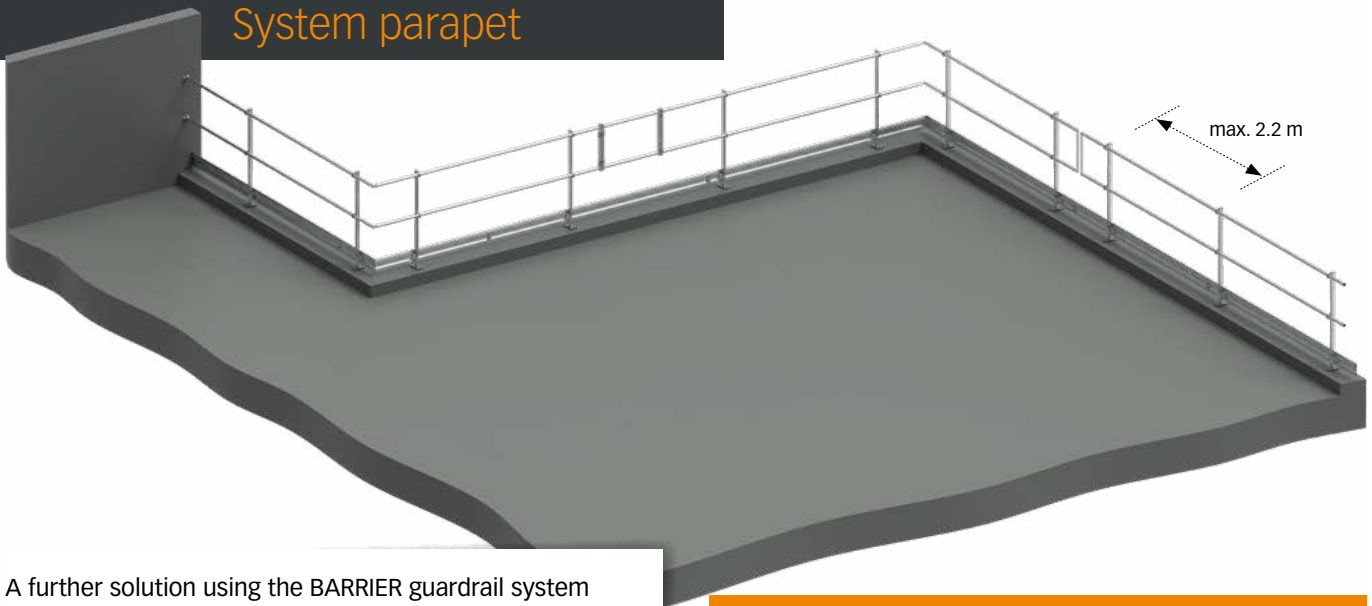
Packaging unit: 2 items

Material: Plastic



Cap for BARRIER-R11 pipes
Projection of pipe max. 350 mm

System parapet



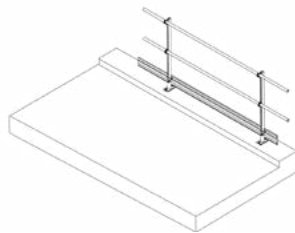
A further solution using the BARRIER guardrail system from INNOTECH is to install it on the parapet substructure. The guardrail system can be attached either on the parapet or alternatively to the inside of the parapet. The system's pitch angle is easily adjustable (90°, 75°, 60°). In order to maintain the building's aesthetics, it is possible to completely fold up the system.

SYSTEM VARIANTS

BARRIER-ATTIKA-OBEN (BARRIER PARAPET ON THE TOP)

GUARDRAIL SYSTEM -
TOP OF PARAPET

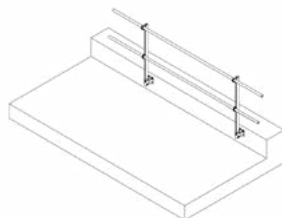
Substructure: Parapet (top)
Material: aluminium,
stainless steel (AISI 304)
System pitch angle: 90°



BARRIER-PARAPET ON THE SIDE

GUARDRAIL SYSTEM -
INSIDE OR OUTSIDE OF PARAPET

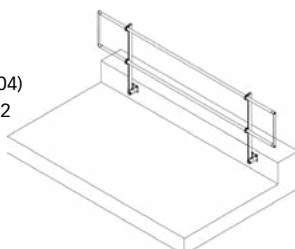
Substructure: Parapet (inside or outside)
Material: aluminium, stainless steel
(AISI 304)
System pitch angle: 90°, 75°, 60° for
BARRIER-S22



BARRIER-ATTIKA-SEITLICH (BARRIER PARAPET ON THE SIDE, HINGED)

GUARDRAIL SYSTEM -
INSIDE OF PARAPET (HINGED)

Substructure: Parapet (inside)
Material: aluminium, stainless steel (AISI 304)
System pitch angle: 0°, 90° for BARRIER-S22



RATING PLATE

BARRIER-Z11

RATING PLATE FOR BARRIER
(EN 13374/EN ISO 14122-3/DIN 14094-2)



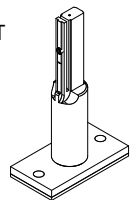
FOOT ELEMENT

BARRIER-A22

ADAPTER FOR ATTACHMENT TO THE TOP OF THE PARAPET

Substructure: Concrete, steel construction
Effective foot height: 137 mm
Material: aluminium, stainless steel (AISI 304)

For attachment of the BARRIER-S21 post
to the top of the parapet

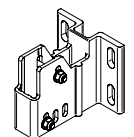


BARRIER-A10

ADAPTER ON THE SIDE OF THE PARAPET

Substructure: Concrete,
Pitch angle of steel construction: 90°, 75°, 60°
Material: aluminium, stainless steel (AISI 304)

For attachment of the BARRIER-S21 post
to the inside of the parapet

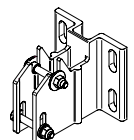


BARRIER-A11

ADAPTER ON THE INSIDE OF THE PARAPET
(HINGED)

Substructure: Concrete,
Pitch angle of steel construction: 90°, 75°, 60°
Material: aluminium, stainless steel (AISI 304)

For attachment of the BARRIER-S21 post
to the inside of a parapet

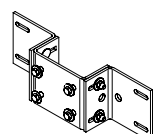


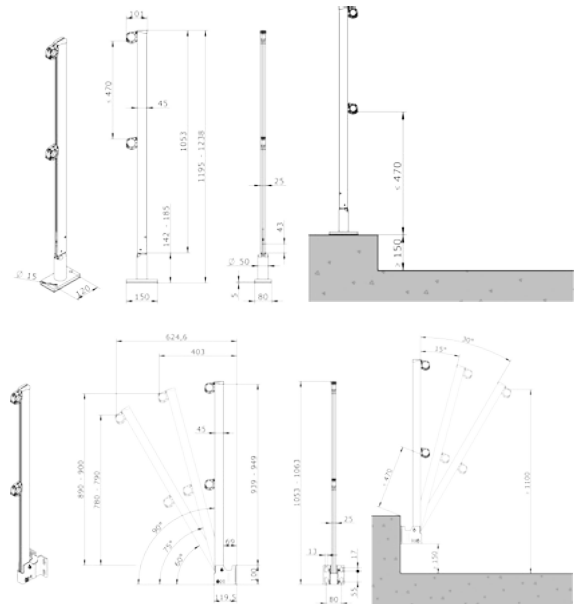
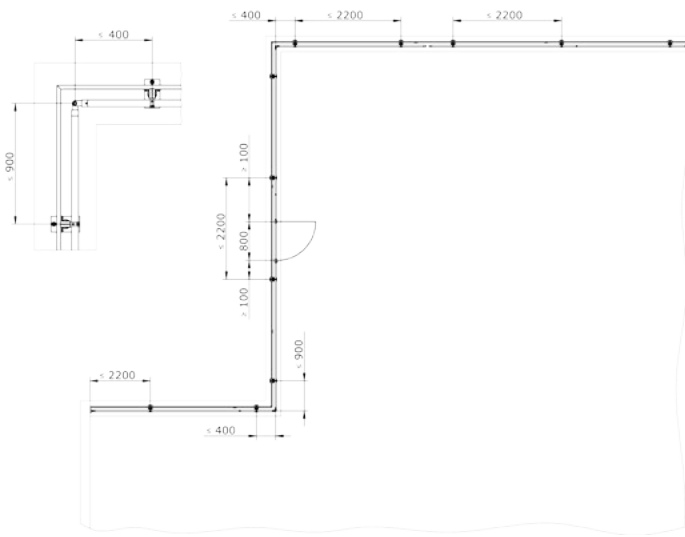
BARRIER-A31

SPACER BRACKET FOR PARAPET

Substructure: Concrete, steel construction
Material: aluminium, stainless steel (AISI 304)

2 different adjustment ranges (65 mm to 105 mm,
or 100 mm to 145 mm for BARRIER-A10 and BARRIER-A11)



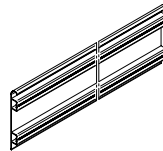


TOE BOARD

BARRIER-F20

TOE BOARD

Height x Width x Length: 170 x 20 x 3000 mm
 Material: aluminium

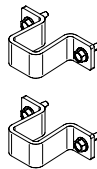


Suitable for use with BARRIER-S20/S21 post and VARIO BARRIER-V12 foot unit, when no parapet higher than 150mm present.

BARRIER-F21

TOE BOARD BRACKET FOR FASTENING THE TOE BOARD TO THE BARRIER-S10 POST

Height x Width: 25 x 45 mm
 Packaging unit: 2 items
 Material: aluminium, stainless steel (AISI 304)



For attachment of the BARRIER-F20 toe board to the BARRIER-S21 post

BARRIER-F23

TOE BOARD CONNECTOR SET

Material: aluminium, stainless steel (AISI 304)

for connecting two BARRIER-F20 toe boards

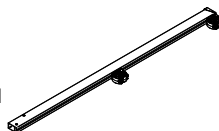


POST

BARRIER-S21-1050

POST, STRAIGHT

Length: 1050 mm
 Material: Aluminium, aluminium/zinc, stainless steel



Standard post for ATTIKA system including pipe bracket.

DOOR

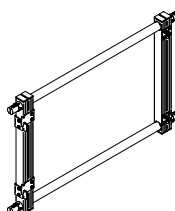
BARRIER-T30

DOOR SET

Material: aluminium

Opening 800 mm, fixed attachment point, not selectable (right hand door)

For implementation using superimposed load, 4x BARRIER-V20 weights required for each door side.

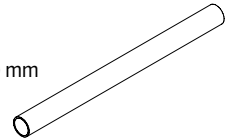


HANDRAIL

BARRIER-R11

ALUMINIUM PIPE, STRAIGHT

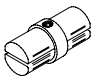
Diameter x Wall thickness x Length: 36 x 2.5 x 3000 mm
 Material: aluminium



BARRIER-R21

LINEAR TIE

Material: aluminium, stainless steel (AISI 304)

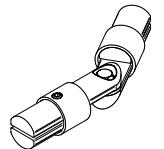


For connection of two BARRIER-R11 pipes

BARRIER-R31

CORNER TIE

Material: Aluminium, plastic

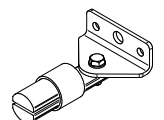


For creating a corner with two BARRIER-R11 pipes, variably adjustable angle

BARRIER-R41

WALL TIE

Substructure: Concrete, steel construction
 Material: Aluminium, plastic



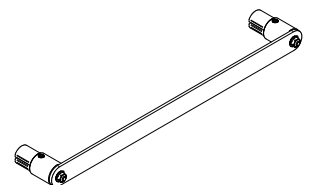
Variably adjustable angle

BARRIER-R51

END SEAL

Material: aluminium

End seal for two BARRIER-R11 pipes
 Projection of pipe max. 500 mm



BARRIER-R91

CAP FOR BARRIER-R11 ALUMINIUM PIPE

Diameter x thickness: 36 x 2 mm
 Packaging unit: 2 items
 Material: Plastic



Cap for BARRIER-R11 pipes
 Projection of pipe max. 350 mm

Skylight system



The skylight guard from INNTECH is the ideal protection for skylights and roof lights. Installation takes place without roof perforation and provides optimum protection.

SYSTEM VARIANTS

BARRIER VARIO

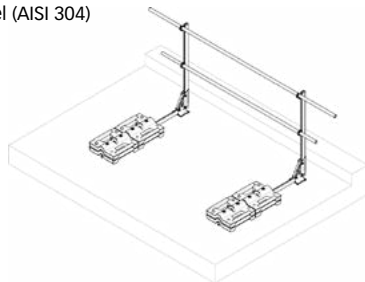
GUARDRAIL SYSTEM – HELD BY SUPERIMPOSED LOAD

Material: aluminium, stainless steel (AISI 304)

Substructure: Flat roof
(max. 10° roof pitch)
System pitch angle
(pre-assembled): 90°, 75°

Without roof penetration

Boom with post and concrete weight (2 x 12.5 kg) with carrying handles

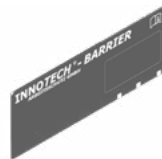


RATING PLATE

BARRIER-Z11

RATING PLATE FOR BARRIER

(EN 13374/EN ISO 14122-3/DIN 14094-2)



FOOT ELEMENT

BARRIER-V20

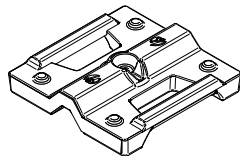
VARIO WEIGHT

Height x Width x Length: 93 x 390 x 390 mm

Weight: 12.5 kg

Material: Concrete

Concrete weight for BARRIER-V12 foot unit



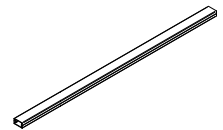
FOOT ELEMENT

BARRIER-S22-1300

VARIO BOOM

Length: 1300 mm

Material: aluminium



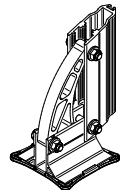
Standard boom for VARIO system,
escape route as per plans
Special lengths upon request

BARRIER-V12

VARIO-FOOT UNIT

Material: Aluminium, stainless steel (AISI 304), plastic

VARIO foot unit without boom/post, for creation of a collective side protection held by superimposed load, including protective plate



BARRIER-V82

VARIO ADAPTER FOOT

Application: Creation of a skylight guard of max. 2000 x 2000 mm

Material: Aluminium, stainless steel (AISI 304) for attaching the BARRIER-S21 post to a BARRIER-V20 VARIO weight



POST

BARRIER-S20-1140

POST, VARIO SYSTEM, STRAIGHT

Length: 1080 mm

Material: Aluminium/zinc, stainless steel



Standard post for VARIO system including pipe bracket.

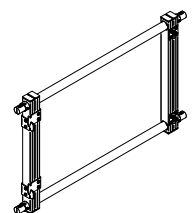
DOOR

BARRIER-T30

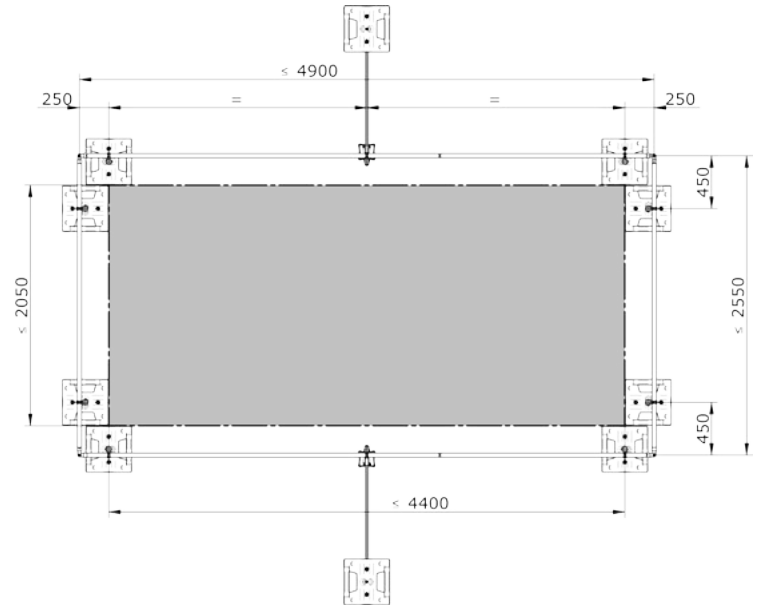
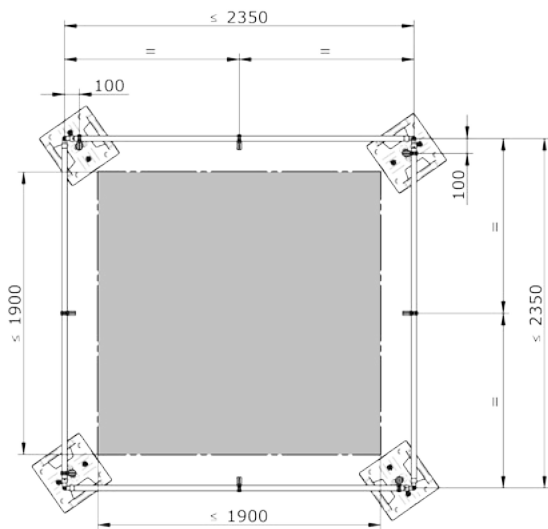
DOOR SET

Material: aluminium

Opening 800 mm, fixed attachment point,
not selectable (right hand door)



For implementation using superimposed load,
4x BARRIER-V20 weights required for each door side.



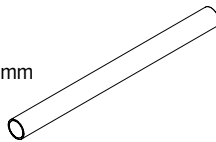
HANDRAIL

BARRIER-R11

ALUMINIUM PIPE, STRAIGHT

Diameter x Wall thickness x Length: 36 x 2.5 x 3000 mm

Material: aluminium



BARRIER-R21

LINEAR TIE

Material: aluminium, stainless steel (AISI 304)

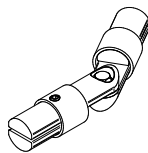


For connection of two BARRIER-R11 pipes

BARRIER-R31

CORNER TIE

Material: Aluminium, plastic



For creating a corner with two BARRIER-R11 pipes
 Variably adjustable angle

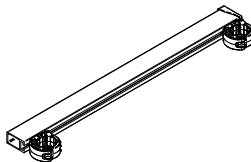
BARRIER-S23

SIDE BAR

Length x Width x Height: 565 x 45 x 25 mm

Material: Aluminium, aluminium/zinc,
 stainless steel

Stiffening strut for BARRIER-R11 pipe



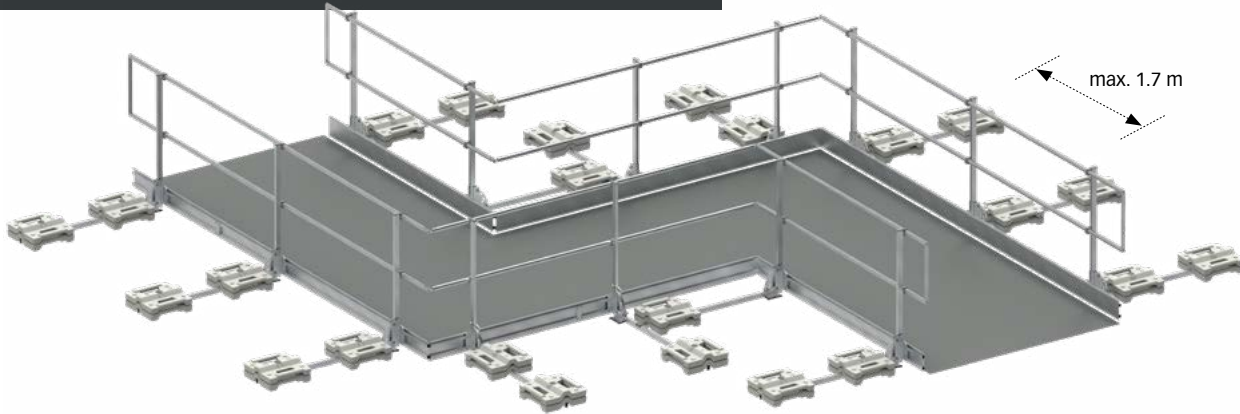
UNIVERSAL APPLICATION POSSIBILITIES

SHAVINGS-FREE INSTALLATION

DISCREET FLUSH-MOUNTED DESIGN

BARRIER / guardrail system

SYSTEM VARIO escape route

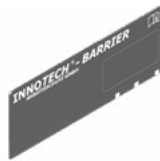


The SYSTEM-VARIO escape route from INNOTECH is held by self supporting load and therefore installed without roof perforation. The width of the flexible system is adjustable, requires significantly less material because of the greater separation distances, and therefore reduces the superimposed load.

RATING PLATE

BARRIER-Z11

RATING PLATE FOR BARRIER
(EN 13374/EN ISO 14122-3/DIN 14094-2)

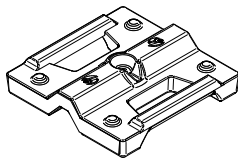


FOOT ELEMENT

BARRIER-V20

VARIO WEIGHT

Height x Width x Length: 93 x 390 x 390 mm
Weight: 12.5 kg
Material: Concrete

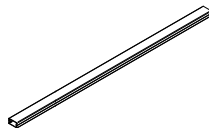


Concrete weight for BARRIER-V12 foot unit

BARRIER-S22-1300

VARIO BOOM

Length: 1300 mm
Material: aluminium



Standard boom for VARIO system,
escape route as per plans

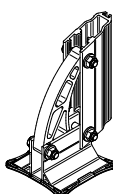
Special lengths upon request

BARRIER-V12

VARIO-FOOT UNIT

Material: Aluminium, stainless steel (AISI 304), plastic

VARIO foot unit without boom/post, for creation of a collective side protection held by superimposed load, including protective plate



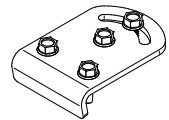
FOOT ELEMENT

BARRIER-V92

VARIO-CORNER TIE

Material: stainless steel (AISI 304)

For the connection of two BARRIER-S22 booms



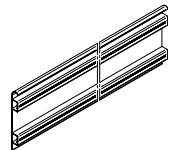
TOE BOARD

BARRIER-F20

TOE BOARD

Height x Width x Length: 170 x 20 x 3000 mm
Material: aluminium

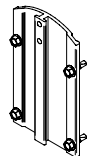
Suitable for use with BARRIER-S20/S21 post and
VARIO BARRIER-V12 foot unit,
when no parapet higher than 150mm is present.



BARRIER-F22

TOE BOARD BRACKET FOR FASTENING
THE TOE BOARD TO THE VARIO BARRIER-V12 FOOT UNIT
Material: aluminium, stainless steel (AISI 304)

for fastening the BARRIER-F20 toe board
to the VARIO BARRIER-V12 foot unit

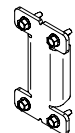


BARRIER-F23

TOE BOARD CONNECTOR SET

Material: aluminium, stainless steel (AISI 304)

for connecting two BARRIER-F20 toe boards



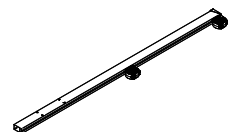
POST

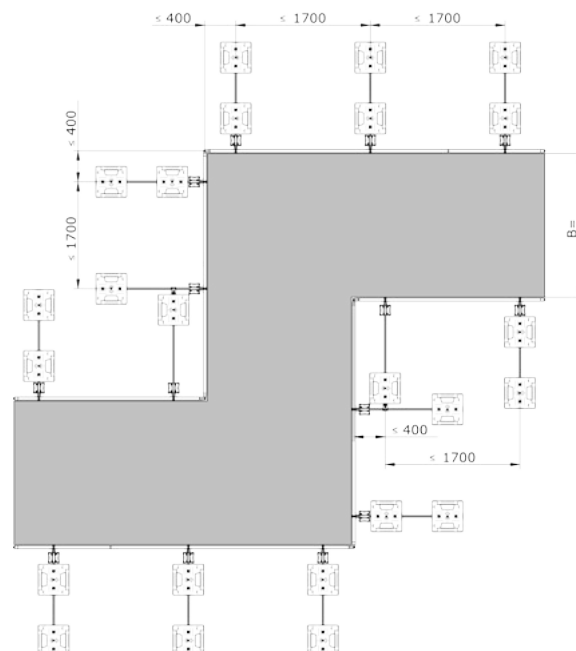
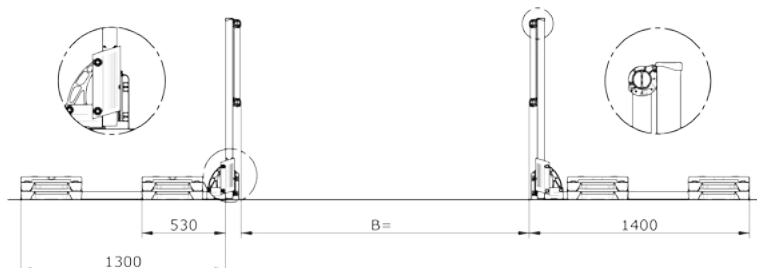
BARRIER-S20-1140

POST, VARIO SYSTEM, STRAIGHT

Length: 1080 mm
Material: Aluminium/zinc, stainless steel

Standard post for VARIO system including pipe bracket.





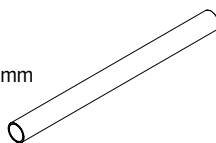
HANDRAIL

BARRIER-R11

ALUMINIUM PIPE, STRAIGHT

Diameter x Wall thickness x Length: 36 x 2.5 x 3000 mm

Material: aluminium



BARRIER-R21

LINEAR TIE

Material: aluminium, stainless steel (AISI 304)

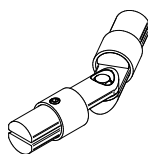


For connection of two BARRIER-R11 pipes

BARRIER-R31

CORNER TIE

Material: Aluminium, plastic



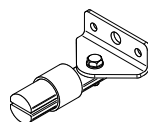
For creating a corner with two BARRIER-R11 pipes
 Variably adjustable angle

BARRIER-R41

WALL TIE

Substructure: Concrete, steel construction

Material: Aluminium, plastic



Variably adjustable angle

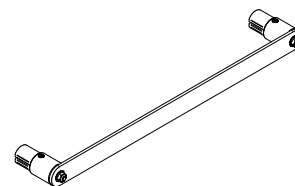
HANDRAIL

BARRIER-R51

END SEAL

Material: aluminium

End seal for two BARRIER-R11 pipes
 Projection of pipe max. 500 mm



BARRIER-R91

CAP FOR BARRIER-R11 ALUMINIUM PIPE

Diameter x thickness: 36 x 2 mm

Packaging unit: 2 items

Material: Plastic



Cap for BARRIER-R11 pipes
 Projection of pipe max. 350 mm

DOOR

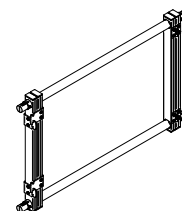
BARRIER-T30

DOOR SET

Material: aluminium

Opening 800 mm, fixed attachment point,
 not selectable (right hand door)

For implementation using superimposed load,
 4x BARRIER-V20 weights required for each door side.



System concrete slabs for escape route

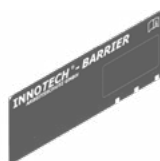


The escape route system from INNOTECH, using concrete slabs, is held in place by superimposed load, and installed without roof penetration. The width of the flexible system is adjustable, and is extremely space-saving thanks to the innovative design.

RATING PLATE

BARRIER-Z11

RATING PLATE FOR BARRIER
(EN 13374/EN ISO 14122-3/DIN 14094-2)



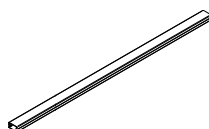
FOOT ELEMENT

BARRIER-S22-1300

VARIO BOOM
Length: 1300 mm
Material: aluminium

Standard boom for VARIO system,
escape route as per plans

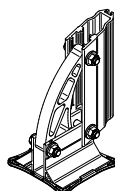
Special lengths upon request



BARRIER-V12

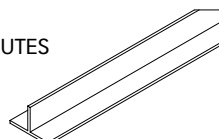
VARIO-FOOT UNIT
Material: Aluminium, stainless steel (AISI 304), plastic

VARIO foot unit without boom/post, for creation of a collective
side protection held by superimposed load,
including protective plate



BARRIER-Z50-3000

FOOTWAY RAIL FOR EMERGENCY ESCAPE ROUTES
Height x Width x Length: 50 x 80 x 3000 mm
Application: Escape routes
Material: aluminium



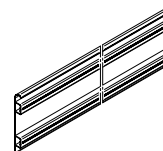
For the creation of escape routes using concrete slabs

TOE BOARD

BARRIER-F20

TOE BOARD
Height x Width x Length: 170 x 20 x 3000 mm
Material: aluminium

Suitable for use with BARRIER-S20/S21 post and
VARIO BARRIER-V12 foot unit, when no parapet higher
than 150mm is present.



BARRIER-F22

TOE BOARD BRACKET FOR FASTENING THE TOE BOARD
TO THE VARIO BARRIER-V12 FOOT UNIT
Material: aluminium, stainless steel (AISI 304)

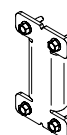
for fastening the BARRIER-F20 toe board
to the VARIO BARRIER-V12 foot unit



BARRIER-F23

TOE BOARD CONNECTOR SET
Material: aluminium, stainless steel (AISI 304)

for connecting two BARRIER-F20 toe boards



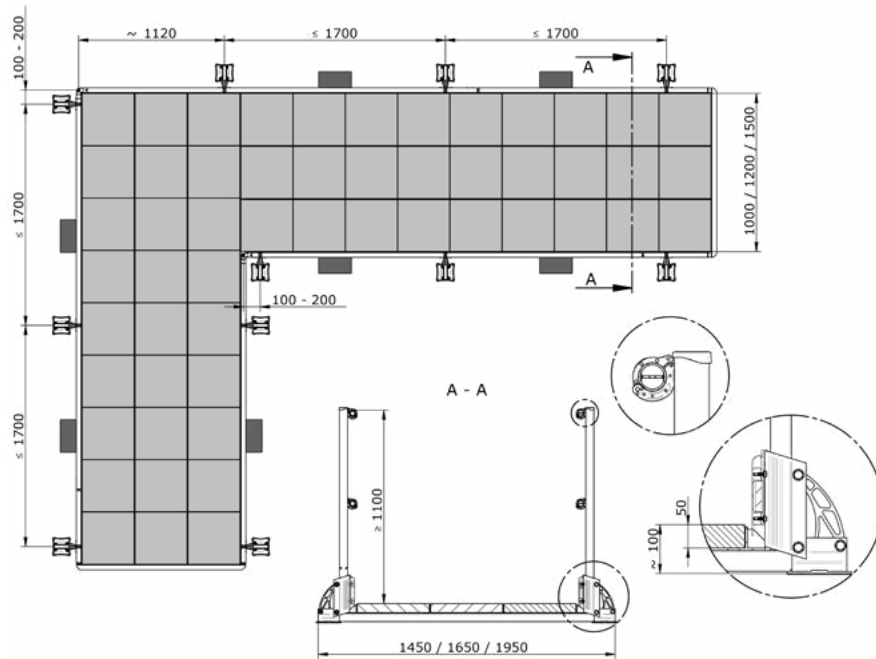
POST

BARRIER-S20-1140

POST, VARIO SYSTEM, STRAIGHT
Length: 1080 mm
Material: Aluminium/zinc, stainless steel

Standard post for VARIO system including pipe bracket.





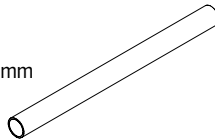
HANDRAIL

BARRIER-R11

ALUMINIUM PIPE, STRAIGHT

Diameter x Wall thickness x Length: 36 x 2.5 x 3000 mm

Material: aluminium



BARRIER-R21

LINEAR TIE

Material: aluminium, stainless steel (AISI 304)

For connection of two BARRIER-R11 pipes

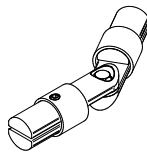


BARRIER-R31

CORNER TIE

Material: Aluminium, plastic

For creating a corner with two BARRIER-R11 pipes, variably adjustable angle



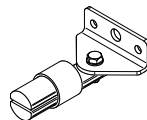
BARRIER-R41

WALL TIE

Substructure: Concrete, steel construction

Material: Aluminium, plastic

Variably adjustable angle



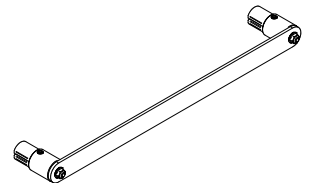
HANDRAIL

BARRIER-R51

END SEAL

Material: aluminium

End seal for two BARRIER-R11 pipes
Projection of pipe max. 500 mm



BARRIER-R91

CAP FOR BARRIER-R11 ALUMINIUM PIPE

Diameter x thickness: 36 x 2 mm

Packaging unit: 2 items

Material: Plastic

Cap for BARRIER-R11 pipes

Projection of pipe max. 350 mm



DOOR

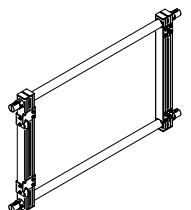
BARRIER-T30

DOOR SET

Material: aluminium

Opening 800 mm, fixed attachment point, not selectable (right hand door)

When used with superimposed load, 4x BARRIER-V20 weights required on each side



THE INNOTECH SAFETY TRAINING

INNO|training

Onsite in your company.

You think that our training courses are great,
but you can't send your employees to us?

NO PROBLEM - IN THAT CASE, WE'LL COME TO YOU!

INNO|training guarantees compact training onsite; this includes the same audiovisual presentations available in our INNO|school, provided by your personal technical representative. In the training bus, you can inspect our products up close and in detail, and the very comfortable seating makes the training a top class event which you should not miss!

After completion of the 4 to 5 hour INNO|training, you receive your own personal certificate, and are therefore trained to install our products correctly.

This INNO|training certificate is valid for 18 months.

During this period, you are able to attend the INNO|school training and here to complete the modules which are still open. As a graduate of the INNO|school, you receive a certificate which is not time-limited.

The benefits for you as an INNOTECH® customer:

- Training at first hand from your personal tutor.
- Huge time-saving
- Fully equipped training bus
- Comfortable seating for 6 persons
- Integrated electronics for high-tech presentations

Book your next training right now:

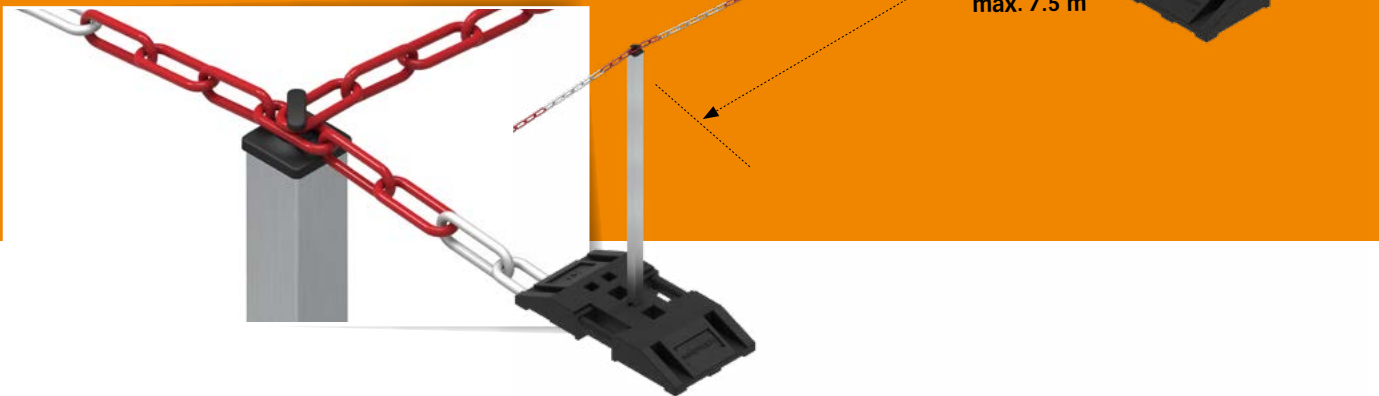
T: +43 7619 22122-181 | E: training@innotech.at
www.innotech.at



PERFECT PROTECTION

LIMIT

Enclosure



The uncomplicated LIMIT solution from INNOTECH provides perfect protection from potential danger sources to people who move at height for their work.

The enclosure, held by self supporting load, is very flexible in use, and takes only a few moments to set up – without the use of special tools.

- Superimposed load enclosure of working areas and sources of danger
- Simple and fast installation
- Simple to assemble (no special tools)

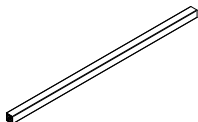
- Low superimposed load, thanks to wide post separation of 7.5 m
- Great inherent stability
- Simple creation of gangways, thanks to innovative chain holder

LIMIT

LIMIT | LIMIT

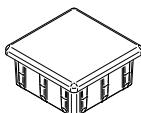
LIMIT-S-1180

Material: aluminium
Length: 1180 mm



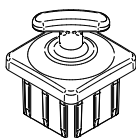
LIMIT-KA-10

Material: plastic
Dimensions: 19 x 40 x 40 mm



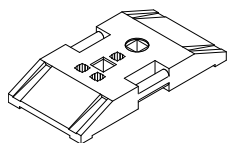
LIMIT-KA-20

Material: plastic
Dimensions: 58 x 47 x 47



LIMIT-GW-10

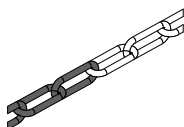
Material: recycled material
Dimensions: 110 x 400 x 400
Weight: 28 kg



Weight for LIMIT-S post made
from recycled material

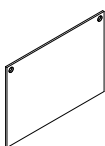
LIMIT-KE-RW

Material: plastic
Dimensions: 46 x 11 x ø6 mm
Length: 25 m/50 m
Colour: red/white



LIMIT-TYP-10

Material: aluminium composite, plastic
For delineating a LIMIT enclosure system



*LIMIT FROM INNOTECH PROVIDES
PERFECT PROTECTION TO PEOPLE
WHO MOVE AT HEIGHT
FOR THEIR WORK*

SKYLIGHT PROTECTION SYSTEM

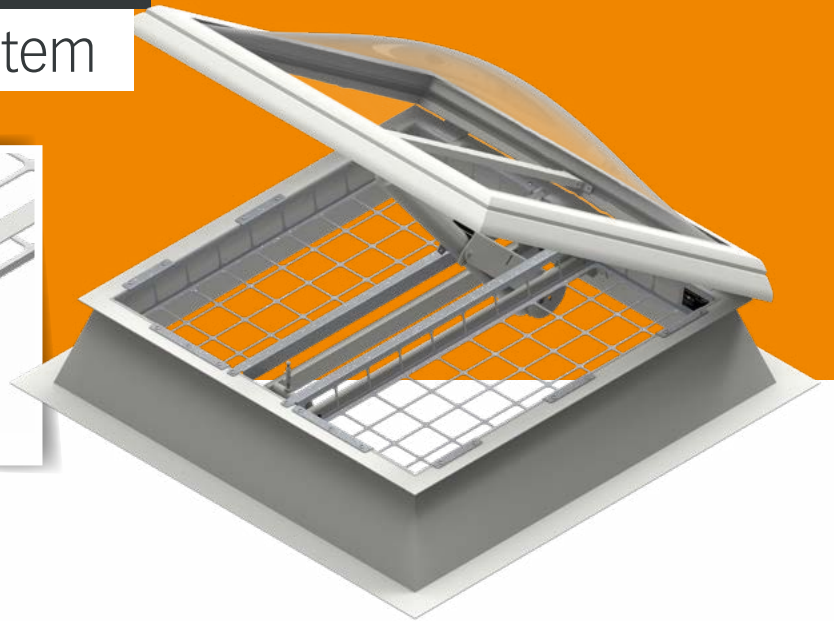
*SIMPLE TO INSTALL
INDIVIDUAL SOLUTIONS*

INNOTECH® Arbeitsschutz GmbH

FALL-THROUGH PROTECTION

LIGHT

Skylight protection system



The sky LIGHT collective fall protection system from INNOTECH can be implemented in any desired dimensions, and is a robust solution for very varied types of skylights and strip lights.

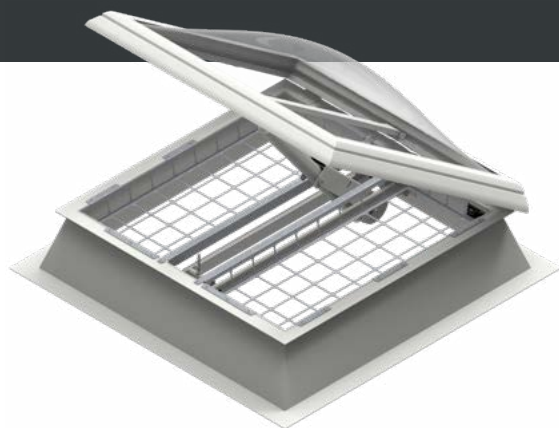
- Fall-through protection for open and enclosed skylights
- High visual quality for office and sales areas (RAL if required)
- High permeability to light and smoke
- Simple to install or retrofit
- Individual solutions possible for various types of skylights

Installation is quick and straightforward, and is possible on wood, concrete, steel, and plastic.

- Variable section sizes for opening mechanism
- Dynamically tested using 100 kg from a fall height of 1.2 m
- Certification to the latest state of the art:

GS-BAU-18 version of February 2001
EN 1873:2016
EN 14963:2006

LIGHT



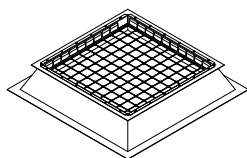
LIGHT | SKYLIGHT PROTECTION SYSTEM

LIGHT SKYLIGHT PROTECTION SYSTEM

Material: galvanised steel
Mesh width: max. 100 x 100 mm

High light and smoke permeability,
straightforward installation,
and easy retrofitting

Various RAL colours, other mesh widths and special shapes
(e.g. round) available on request



SIMPLE TO INSTALL

LIGHT-FLEX

Skylight fall-through protection system



The flexible LIGHT-FLEX collective fall protection system from INNOTECH can be implemented in any desired dimensions, and is a robust solution for very varied types of skylights and strip lights.

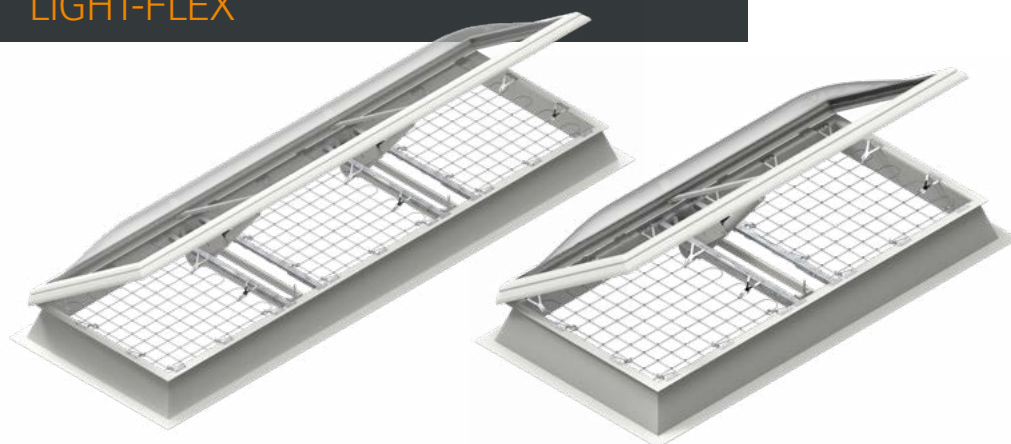
- Flexible fall-through protection for open and enclosed skylights
- Especially also for the protection of strip lights
- Simple to install or retrofit
- Variable size adjustment even during the installation
- Variable section sizes for opening mechanism

The system is a winner because installation is quick and straightforward, and is possible on wood, concrete, steel, and plastic.

- Also for smoke/heat extraction systems
- Express delivery available upon request
- High permeability to light and smoke
- Certification to the latest state of the art:

GS-BAU-18
EN 1873:2016
EN 14963:2006

LIGHT-FLEX



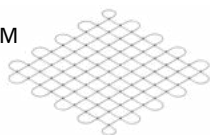
LIGHT | SKYLIGHT PROTECTION SYSTEM

LIGHT-FLEX-NET-01

SKYLIGHT FALL-THROUGH PROTECTION SYSTEM

Material: galvanised steel
Mesh width: max. 100 x 100 mm

High light and smoke permeability - straightforward installation and easy retrofitting



LIGHT-FLEX-KARI

SCREW CARABINER FOR LIGHT-FLEX-BEF-01

Material: galvanised steel
Load capacity: 125 kg



LIGHT-FLEX-RWA-01

STIFFENING RAIL FOR LIGHT-FLEX-BEF-0

Material: galvanised steel
Adjustment ranges:
1165 mm: 800 to 1165 mm
1525 mm: 1150 to 1525 mm
1900 mm: 1525 to 1900 mm



Stiffening rail for LIGHT-FLEX-NET-01 for skylights with smoke and heat extraction system

LIGHT-FLEX-BEF-01

FASTENING HOLDER FOR LIGHT-FLEX

Material: galvanised steel
Length: 130 mm
Width: 90 mm



LIGHT-FLEX-BEF-02

FASTENING HOLDER FOR LIGHT-FLEX, PRE-CANTED

Material: galvanised steel
Length: 136 mm
Width: 90 mm



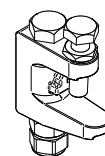
SKYLIGHT PROTECTION SYSTEM

LIGHT-FLEX-BEF-40

BEAM CLAMP FOR LIGHT-FLEX-BEF-01

Material: galvanised steel
Flange thickness: 5 to 26 mm

HILTI MAB-13 beam clamp for LIGHT-FLEX-BEF-01
Available only upon request



*VARIABLE SIZE ADJUSTMENT EVEN
DURING THE INSTALLATION
HIGH PERMEABILITY TO LIGHT
AND SMOKE
ESPECIALLY FOR
THE PROTECTION OF ROOF LIGHTS*

LIGHT-FLEX / skylight fall-through protection

SAFETY ROOF HOOKS

*LOW WEIGHT
WIDE RANGE OF COLOURS*

INNOTECH® Arbeitsschutz GmbH

AVAILABLE IN ALL COLOURS!

SDH

Safety roof hook



The safety roof hook from INNOTECH requires only modestly dimensioned wood, and therefore adapts optimally to the roof conditions.

- For hooking in a ladder placed against the roof
- Also a single anchor point for personal safety
- For pitched roofs and various roof structures
- Can be included in lightning protection system

The SDH, available in various colours, is therefore very unobtrusive in terms of the architectural surroundings, and it guarantees perfect safety – as per the standard, testing took place in all load directions, even in the “y” direction.

- Low weight
- Available in various colour styles
- Certification to the latest state of the art:

EN 517:2006 TYPE B tested in all load directions

Safety roof hook

SDH | SAFETY ROOF HOOK

SDH-02-ST

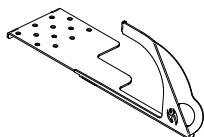
SAFETY ROOF HOOK FOR QUICK INSTALLATION (EN 517 B)

Substructure: wood (at least 8/8 cm)

Material: galvanised steel (coated)

Colours: grey (RAL 7004), anthracite (RAL 7021)

brown (RAL 8017), red (RAL 8004)



Minimum perforation depth into
the statically load-bearing construction 80 mm

*CAN BE INCLUDED IN
LIGHTNING PROTECTION SYSTEM*

*AVAILABLE IN
VARIOUS COLOUR STYLES*

LOW WEIGHT

SDH / Safety roof hook

SDH-INDUSTRY-31

SDH-INDUSTRY

Safety roof hook



The SDH-INDUSTRY-31 safety roof hook from INNOTECH is the most logical option for standing seam roof systems. The special design of the stainless steel bracket protects the surface. Installation takes place without roof perforation, and thereby prevents moisture getting into the interior of the roof. The option to install onto sliding cleats is unique

in the market. As per the standard, testing took place in all load directions, even in the "y" direction.

- Single anchor point for personal safety on a pitched roof
- For hooking in a ladder on a pitched roof
- Very low weight
- Extremely simple to install

- Reduced installation time thanks to pre-assembly
- Also suitable for copper roofs
- Certification to the latest state of the art:

EN 517:2006 TYPE B tested in all load directions

Safety roof hook

SDH | SAFETY ROOF HOOK

SDH-INDUSTRY-31

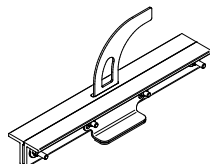
SAFETY ROOF HOOK FOR STANDING SEAM ROOF SYSTEMS (EN 517 B)

Substructure: (double) standing seam roof systems

Material (material thickness): steel (min. 0.5 mm),

aluminium (min. 0.7 mm)

Material: aluminium, stainless steel (AISI 304)



Pre-assembled and does not require roof perforation

SDH-INDUSTRY-31-CU

SAFETY ROOF HOOK FOR STANDING SEAM ROOF SYSTEMS (EN 517 B)

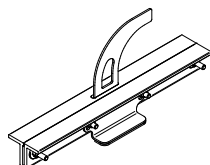
Substructure: (double) standing seam roof systems

made of copper

Material (material thickness): copper (min. 0.6 mm)

Material: aluminium, anodised A6/C33,

stainless steel (AISI 304)



Pre-assembled and does not require roof perforation

TECHNIQUE OF APPLICATION

SPECIAL SOLUTIONS

AMAZONAS TALL TOWER OBSERVATORY
Amazonas, Brazil

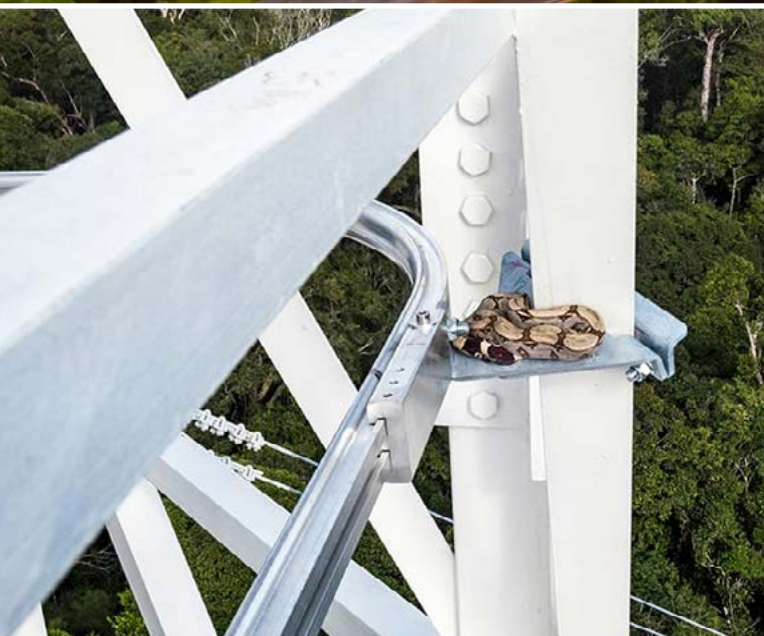
With our special solutions department, Technique of Application (TOA), as well as the Fast Lane which we have set up for development, we can supply individualised systems for our customers quickly.

MORE SAFETY.
MORE INFORMATION.
MORE FROM LIFE!

INNO|training
INNO|school
INNO|plan
INNO|doc

www.innotech.at

INDIVIDUALISED AND ADAPTABLE



The Amazonas rainforest is recognised as being decisive in the battle against global warming. And there it stands in the middle of the rainforest – the 325 metre high metal tower, a greater height than the Eiffel tower. The steel giant of the ATTO (Amazonian Tall Tower Observatory) research project is fitted with measurement devices which contribute to the recording and evaluation of climate-relevant chemical and physical processes relating to the world's largest contiguous area of forest, and thus of creating new bases for climate protection.

And therefore, for permanent protection while ascending and descending the ATTO in Brazil, an individualised rail system was developed by INNOTECH. The tailored special version of our TAURUS rail system provides safety on the tower with the ability to protect the people optimally using a mobile anchorage point or a guided type fall arrester. Versatile rail connectors and end seals are very simple to install, and curved and bent elements match the constructional conditions perfectly – the optimum fall protection for the measurement tower. Should a fall occur, the Allround slider blocks immediately, thereby saving lives.

FALL PREVENTION SYSTEM FOR WINDOWS

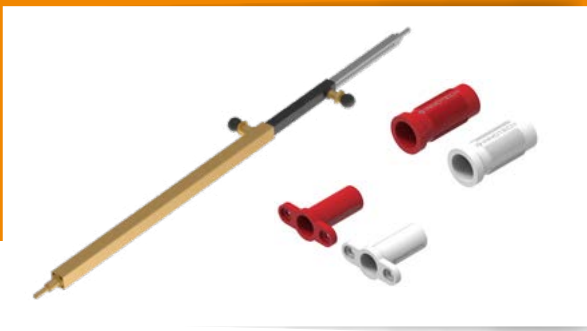
*RAPID INSTALLATION
UNIVERSALLY USABLE*

INNOTECH® Arbeitsschutz GmbH

UNIVERSALLY USABLE

FAS

Fall protection for windows



Because of its adjustable width, the FAS fall protection system for windows from INNOTECH can be used universally and is therefore very well suited for securing while cleaning open windows, as per legal requirements.

Because of its low net weight, the FAS is quick and easy to attach and remove.

- Revolutionary safety system for windows
- Optimal for cleaning tasks
- Can be used universally, thanks to telescopic system

- Collective side protection – no safety harness required
- Certification to the latest state of the art:

EN13374:2013

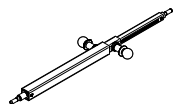
Fall prevention for windows

FAS | FALL PREVENTION SYSTEM FOR WINDOWS

FAS-01

FAS TELESCOPIC FALL PREVENTION SYSTEM
FOR WINDOWS

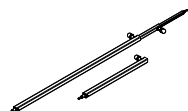
390 - 620 mm (1.1 kg)



FAS-02

FAS TELESCOPIC FALL PREVENTION SYSTEM
FOR WINDOWS

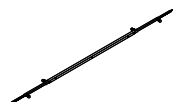
615 - 1610 mm (3.3 kg)



FAS-03

FAS TELESCOPIC FALL PREVENTION SYSTEM
FOR WINDOWS

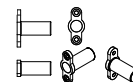
1550 - 2400 mm (5.3 kg)



FAS | GUIDE BUSHES

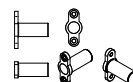
FH-S-R

FAS GUIDE BUSH RED



FH-S-W

FAS GUIDE BUSH WHITE



FH-B-R

FAS GUIDE BUSH RED



FH-B-W

FAS GUIDE BUSH WHITE



UNIVERSALLY USABLE

FSG

Window safety railing



The width of the mobile FSG window safety railing from INNOTECH is very easy to adjust, and the system can therefore be used universally. People who have to perform maintenance and cleaning work on open windows are

therefore secured in the best possible way. After use, the FSG can be quickly and easily removed again and stowed in the minimum of space.

- Revolutionary safety system for windows
- Optimal for cleaning tasks
- Can be used universally, thanks to telescopic system
- Collective side protection – no safety harness required

- Certification to the latest state of the art:

EN13374:2013

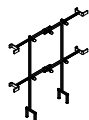
Window safety railing

FSG | WINDOW SAFETY RAILING

FSG-01-PROFI

FSG WINDOW SAFETY RAILING

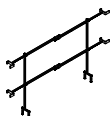
400 - 910 mm (5 kg)



FSG-02-PROFI

FSG WINDOW SAFETY RAILING

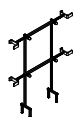
770 - 1720 mm (7 kg)



FSG-03

FSG WINDOW SAFETY RAILING

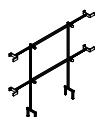
490 - 730 mm (4.6 kg)



FSG-04

FSG WINDOW SAFETY RAILING

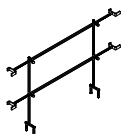
700 - 1160 mm (5 kg)



FSG-05

FSG WINDOW SAFETY RAILING

1100 - 1570 mm (5.9 kg)



*REVOLUTIONARY SAFETY SYSTEM
FOR WINDOWS*

UNIVERSALLY USABLE

FSG / window safety railing

TEMPORARY PROTECTION

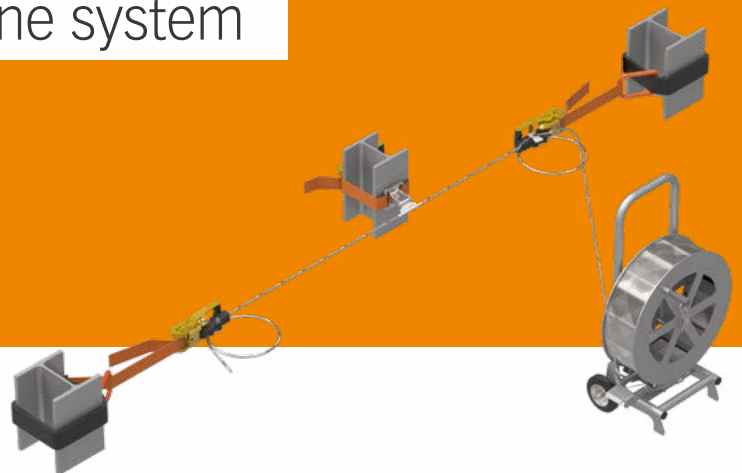
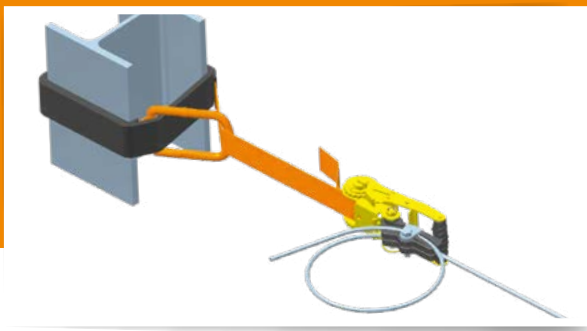
*MOBILE
RAPID INSTALLATION
SIMPLE TO INSTALL*

INNOTECH® Arbeitsschutz GmbH

LIFELINE SYSTEM

TEMP

Temporary horizontal lifeline system



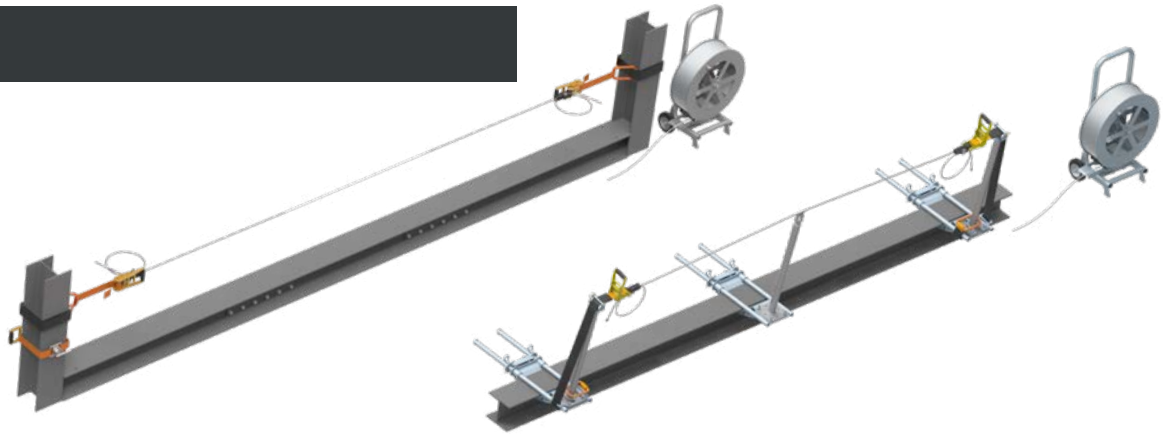
TEMP, the simple temporary horizontal lifeline system from INNOTECH is quickly installed and removed, and is therefore especially suitable for short-term installation requirements on building sites or on industrial construction sites having very varied support structures (steel, facade, warehouse, and bridge construction, etc.). A practical lashing strap

ratchet and a braked cable pulley with up to 150 m stainless steel cable provide the maximum possible flexibility for temporary use.

- Mobile lifeline system
- Ideal for steel, facade, warehouse, and bridge construction
- Adapts individually to very varied fastening options (round columns, steel construction, INNOTECH anchorage points)
- Simple and quick installation and removal
- Braked cable pulley with up to 150 m stainless steel cable
- End lock with integrated shock absorber
- Up to 20 m separation between intermediate brackets can be achieved
- Certification to the latest state of the art:

EN 795:2012 TYPES B and C
 CEN/TS 16415:2013

TEMP

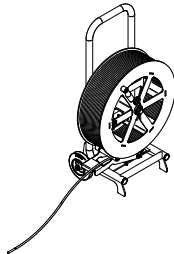


CABLE | STAINLESS STEEL

TEMP-HASPEL-10 MOBILE CABLE PULLEY

Material: stainless steel (AISI 316), galvanised steel, decelerated cable drum for the practical paying out and winding in of the stainless steel cable (AIO-SEIL-30)

TEMP-HASPEL-10-150 including 150 m stainless steel cable, weight ~85 kg

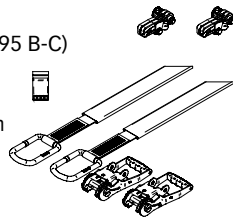


ENDS | END LOCK

TEMP-ENDS-10 TEMPORARY END LOCK SET WITH INTEGRATED SHOCK ABSORBER (EN 795 B-C)

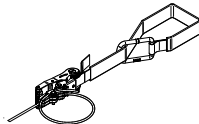
Substructure: steel or concrete support
Application: steel, facade, and bridge construction
Belt length: 4 m
Material: aluminium (anodised), plastic, galvanised steel
Complete set for one cable span (packing unit = 2 items)

can be quickly attached and removed at any point of the stainless steel cable (AIO-SEIL-30) – attachment by means of lashing strap on steel or concrete support



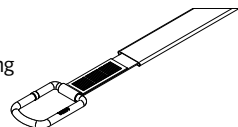
ENDS-10

Anodised aluminium, stainless steel A2, galvanised steel



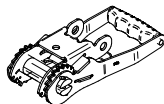
POLYESTER HARNESS STRAP

50 x 4000 mm with powder-coated steel end fitting and protective polyester hose with smooth PVC coating Ø 35 x 2000 mm



RATCHET

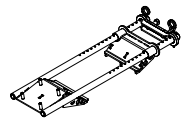
50 mm, 18 teeth, 5000 daN; made from galvanised steel, with plastic handle



BEF | FASTENING

BEF-412 CLAMPING CONSOLE, STEEL CONSTRUCTION

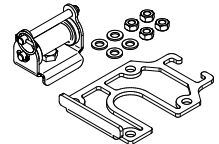
Material: galvanised steel
Flange thickness: 10 to 40 mm
Width of steel girder: 125 to 415 mm



BEF-412-1 GUIDE PULLEY, STEEL CONSTRUCTION

Material: galvanised steel

for the creation of an end-point in a temporary lifeline system (TEMP-ENDS-10)

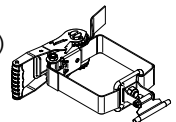


SZH | INTERMEDIATE BRACKET

TEMP-SZH-10 TEMPORARY INTERMEDIATE BRACKET (EN 795 B-C)

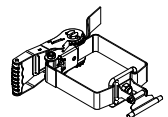
Material: aluminium (anodised), plastic, galvanised steel
Substructure: steel or concrete support
Application: steel, facade, and bridge construction
Belt length: 2.5 m

Attachment is made using a lashing strap on steel or concrete support (packing unit = 1 item)



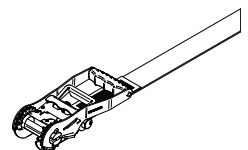
SZH-10

Stainless steel A2 and nickelled steel



POLYESTER HARNESS STRAP WITH SEWN-IN RATCHET

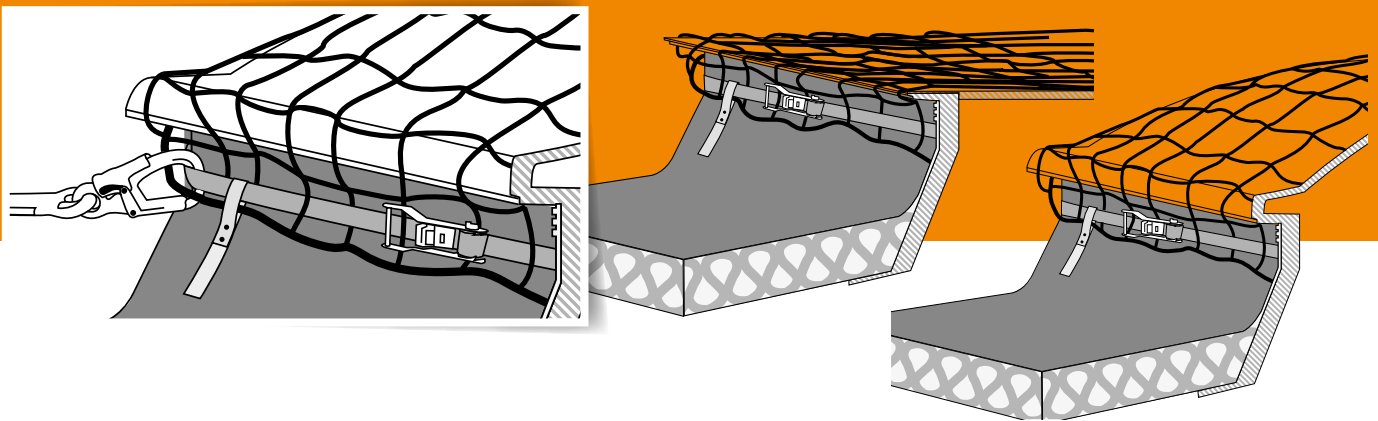
50 x 2500 mm
50 mm, 18 teeth, 5000 daN; made from galvanised steel, with plastic handle



SKYLIGHT PROTECTION SYSTEM

MOBI

Mobile skylight fall-through protection



The MOBI mobile skylight fall-through protection from INNOTECH, made from high-strength polypropylene, is used as a fall-through protection system, and also as a single anchor point for one person.

- For the temporary protection of skylights
- Can additionally be used as a single anchor point
- Simple and quick installation by means of holding straps
- Attached by a lashing strap to the skylight – causes no damage to the skylight

It guarantees ideal safety, especially for clearing or maintenance work, and is extremely practical and simple to use.

- Optimum for short-term tasks
- Certification to the latest state of the art:

EN 1263-1
EN 795:2012 TYPE B

Mobile skylight fall-through protection

MOBI | SKYLIGHT PROTECTION SYSTEM

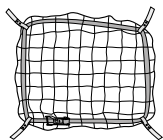
MOBI MOBILE SKYLIGHT PROTECTION SYSTEM

INCL. TEMPORARY SINGLE ANCHOR POINT

Material: plastic, galvanised steel

Sizes: 2 x 2 m (max. skylight size 1.5 x 1.5 m)

3 x 3 m (max. skylight size 2.7 x 2.7 m)



Mesh net for covering the skylight includes lashing strap

(mesh width 100 x 100 as per standard)

(lashing strap can also be used as single anchor point)

FOR CONCRETE, WOOD, STEEL

EAP-LOCK

Detachable single anchor point



The LOCK-13 single anchor point from INNOTECH with the detachable, rotating anchorage eye secures 2 people (including 1 person for the provision of first-aid) with personal protective equipment. The matching LOCK-11 receptacle sleeve from INNOTECH® is permanently attached to the masonry, and has a protective cap which suitably

covers the single anchor point when not in use. Inspection was performed both statically and dynamically on the original substructure.

- Detachable anchor point with rotating anchorage eye
- For concrete, wood, and steel constructions
- Optimised safety locking
- Architecturally unobtrusive (detachable)

- Certification to:

EN 795:2012 TYPE B
CEN/TS 16415:2013



EAP-LOCK

EAP | SINGLE ANCHOR POINT

LOCK-11

RECEPTACLE SLEEVE FOR EAP-LOCK-13 (EN 795 A)

Substructure: Concrete (at least C20/25), red brick, wood, steel construction

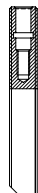
Usable thread lengths: 100/150/200/300/400/500 mm

Thread: M22

Drill hole: Ø 24 mm (drilling depth at least 110 mm)

Accessories: 2x replacement caps in red and white

Material: stainless steel (AISI 304) with M10 inner thread, suitable for the pull-out test



LOCK-12

END CAP FOR EAP-LOCK-11 IN RED OR WHITE



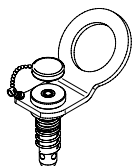
LOCK-13

SINGLE ANCHOR POINT, DETACHABLE, ROTATING ANCHORAGE EYE (EN 795 A)

Substructure: Receptacle sleeve EAP-LOCK-11

Material: stainless steel (AISI 304), aluminium, brass

Increased safety thanks to innovative locking system



DETACHABLE ANCHOR POINT WITH ROTATING ANCHORAGE EYE

EAP-LOCK

PERSONAL PROTECTIVE EQUIPMENT

*LOW WEIGHT
UNIVERSALLY USABLE
LONG WORKING LIFE*

Products from INNOTECH® Arbeitsschutz GmbH

BE SECURE AND DON'T FALL

PSA-STRING

Personal protective equipment



The STRING personal protective equipment from INNOTECH is a high-quality basic harness which can be extended with versatility, and is therefore used in numerous applications.

Its low net weight guarantees the user extremely high wearing comfort and maximum safety through automatic locks.

- Universally usable basic harness which can be extended by means of modular system (STRING-2/4)
- Can be used as a fall arrest, restraint, and positioning system
- Low weight
- Simple to put on, and maximum safety through automatic locks

- Additional insertion buckle in the chest area ensures great safety
- Certification to the latest state of the art:

EN 361
EN 354

Personal protective equipment

PSA | PERSONAL PROTECTIVE EQUIPMENT

PSA-STRING-2

Extension for PSA-STRING-1
Length: 470 mm



PSA-STRING-4

Removable shoulder pad for additional wearing comfort
of the PSA-STRING-1 safety harness



PSA | SET - BASIC

PSA-STRING-1

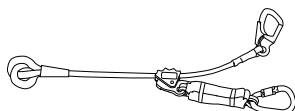
Extendable base strap (1kg) with automatic fasteners
in the carry pouch (max. rated load: 130 kg)



PSA-BRAKE-10

SHEATHED CORE ROPE (Ø 12 MM)
WITH GUIDED TYPE FALL ARRESTER
(EN 353-2 / EN 354 / EN 795)

Length: 10 m (EN 353-2/EN 358/EN 795)

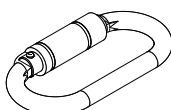


PSA-KARI-1

TRIPLE-LOCK CARABINER, ALUMINIUM (EN 362)

Material: aluminium
Load capacity: 22 kN

Closes automatically!



PSA | SET - ROOF

PSA-STRING-1

Extendable base strap (1kg) with automatic fasteners
in the carry pouch (max. rated load: 130 kg)



PSA-STRING-2

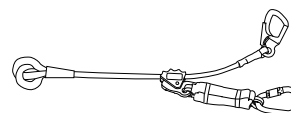
Extension for PSA-STRING-1
Length: 470 mm



PSA-BRAKE-10

SHEATHED CORE ROPE (Ø 12 MM)
WITH GUIDED TYPE FALL ARRESTER
(EN 353-2 / EN 354 / EN 795)

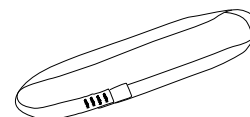
Length 10 m (EN 353-2/EN 358/EN 795)



PSA-TAPE-80

TAPE SLING (EN 354/EN 566/EN 795)

Material: Polyester (PES)
Dimensions: 25 x 2 mm
Lengths: 0.6/0.8/1.2/1.5/2.0 m
Load capacity: 22 kN



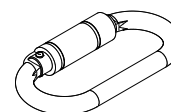
Creation of anchor points (EN 795)
Use as mountain climber equipment (EN 566)
Use as lanyard (EN 354)

PSA-KARI-1

TRIPLE-LOCK CARABINER, ALUMINIUM (EN 362)

Material: aluminium
Load capacity: 22 kN

Closes automatically!

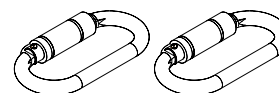


KA-TL-10-362-A2 (2X)

TRIPLE-LOCK CARABINER, STAINLESS STEEL (EN 362)

Material: stainless steel V2 (AISI 304)
Load capacity: 22 kN
Replacement carabiner for AIO-GLEIT-10/13

Closes automatically!



SHEATHED CORE ROPE

BRAKE

Lanyard



The user-friendly BRAKE lanyard from INNOTECH was developed for the most varied functions: It works as a restraint system, or is suitable for workplace positioning. In addition, it can be used as a lanyard or as a temporary horizontal lifeline system.

- Sharp-edge tested sheathed core cable with length adjustment device including shock absorber
- Can be used as a fall arrest system, restraint system, positioning system, and lanyard
- Can also be used as temporary lifeline system
- Long working life of 10 years
- Certification to the latest state of the art:

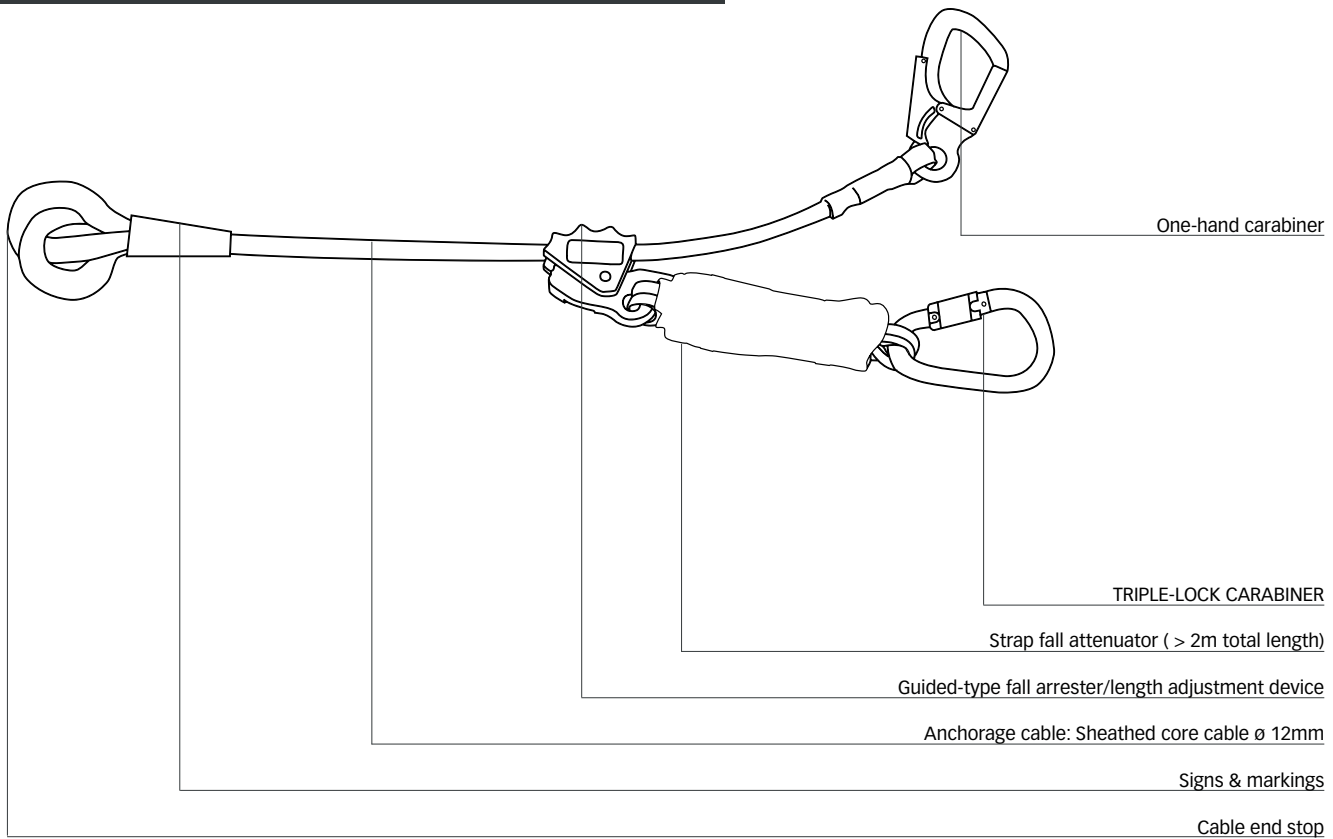


The robust sheathed core cable is flexibly adjustable lengthways and has a shock absorber.

A high-quality TRIPLE-LOCK carabiner completes the safety package and significantly minimises the risk for the user – by means of automatic buckles.

EN 795:2012 TYPES B and C, EN 354:2010,
EN 358:2000, EN 353-2:2002,
CEN/TS 16415:2013

Lanyard



PSA | BRAKE

PSA-BRAKE LANYARDS

Lengths: 2/5/10/15/20/25 m

PSA-BRAKE-5 without integrated strap fall attenuator for:

- Restraint system (EN 354)
- Positioning system (EN 358)

Starting with PSA-BRAKE-5 - with integrated strap fall attenuator for:

- Fall arrest system/restraint system (EN 353-2)
- Positioning system (EN 358)
- Temporary horizontal lifeline system (EN 795)

SHEATHED CORE ROPE

SHARK

Lanyard



The SHARK lanyard from INNOTECH has been tested for horizontal use, and is a winner because of the versatility of its functions: When used as a lanyard, as an anchorage device, as a positioning or work positioning system, or also as a guided type fall arrester on a flexible anchorage line, it stands out because of its high-quality features:

The steel core provides 100% safety, even in extreme

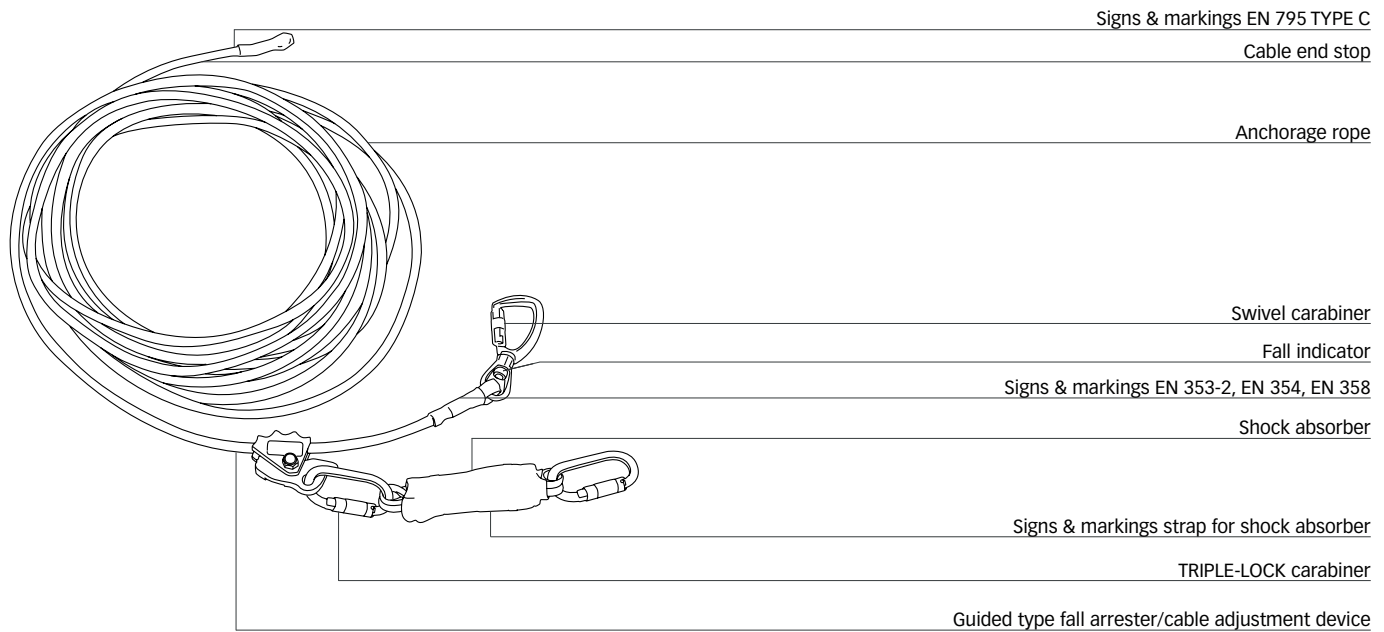
applications, and the safety cable, whose length is flexibly adjustable, can deal with any sharp edge. The risk for the user is significantly reduced by lockable Triple-Lock steel carabiners. An installed indicator automatically signals a load caused by a fall.

- Securing cable with steel core, textile covering, and variable length adjustment device
- Can also be used as horizontal lifeline system
- Steel core ensures 100% safety in extreme applications
- High-quality steel carabiner with automatic lock
- Tested for horizontal use

- Tested for corners and sharp edges as per prEN 354:2008 Annex A and CNB11/P/11.054
- Certification to the latest state of the art:

EN 795:2012 TYPES B and C, EN 354:2010, EN 358:2000
EN 353-2:2002, CEN/TS 16415:2013

Lanyard



PSA | SHARK

PSA-SHARK

SHEATHED CORE ROPE (Ø 12MM) WITH STEEL CORE AND GUIDED TYPE FALL ARRESTER (EN 353-2/EN 358/EN 795)

Lengths: 2/5/10/15 m

PSA-SHARK-2 without integrated shock absorber, for:

- Restraint system (EN 354)
- Positioning system (EN 358)

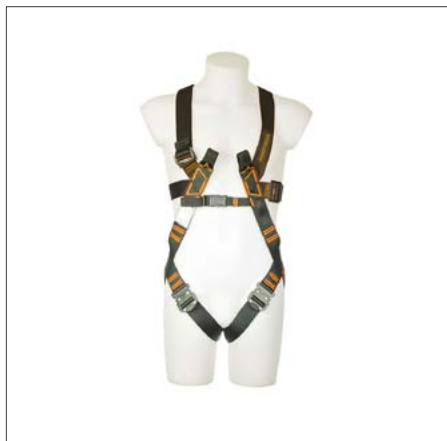
From PSA-SHARK-5 with integrated shock absorber, for:

- Fall arrest system/restraint system (EN 353-2)
- Positioning system (EN 358)
- Temporary horizontal lifeline system (EN 795)

ASSOCIATED EQUIPMENT

ASSOCIATED EQUIPMENT

PPE - Associated equipment



SAFETY HARNESS (EN 358/EN 361)

- Size: Universal
- Max. rated load: 130 kg

Extendable basic harness (1 kg) secured with automatic locks, in carrying pouch.

PSA-STRING-1



LANYARD (EN 354)

- Length: 470 mm
- Extension for PSA-STRING-1 (e.g.: working on pitched roof, etc.)

2x TRIPLE-LOCK carabiners included in scope of delivery

PSA-STRING-2



SHEATHED CORE ROPE (Ø 12 MM) with guided type fall arrester (EN 353-2/EN 354/EN 358/EN 795)

- Lengths: 2/5/10/15/20/25 m
- PSA-BRAKE-2 without integrated shock absorber for:
Restraint system (EN 354)
Positioning system (EN 358)

From PSA-BRAKE-5 with integrated shock absorber for:
Fall arrest system/restraint system (EN 353-2)
Positioning system (EN 358)
Temporary horizontal lifeline system (EN 795)
Special lengths upon request

PSA-BRAKE-002
PSA-BRAKE-005
PSA-BRAKE-010
PSA-BRAKE-015
PSA-BRAKE-020
PSA-BRAKE-025



SHEATHED CORE ROPE (Ø 6 MM)
with steel core and guided type fall arrester
(EN 353-2/EN 354/EN 358/EN 795)

- Lengths: 2/5/10/15 m
- PSA-SHARK-2 without integrated
- shock absorber for:
Restraint system (EN 354)
Positioning system (EN 358)

From PSA-SHARK-5 with integrated shock absorber, for:
Fall arrest system/restraint system (EN 353-2)
Positioning system (EN 358)
Temporary horizontal lifeline system (EN 795)
Special lengths upon request

Edge tested as per EN 354:2008 Annex A and CNB11/P/11.054

PSA-SHARK-002
PSA-SHARK-005
PSA-SHARK-010
PSA-SHARK-015



TRIPLE-LOCK CARABINER (EN 362)

- Material: aluminium
- Load capacity: 22 kN

Closes automatically

PSA-KARI-1



TRIPLE-LOCK CARABINER (EN 362)

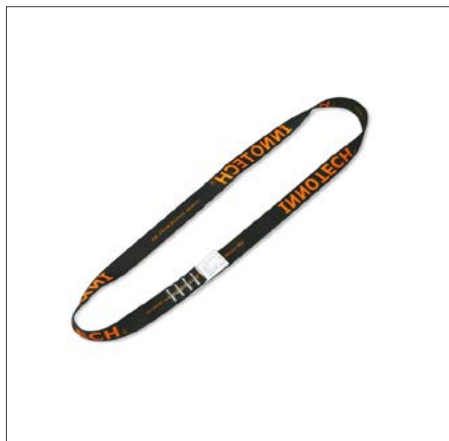
- Material: stainless steel
- Load capacity: 22 kN
- Replacement carabiner for AIO-GLEIT-10/13

Closes automatically

KA-TL-10-362-A2

ASSOCIATED EQUIPMENT

PPE - Associated equipment

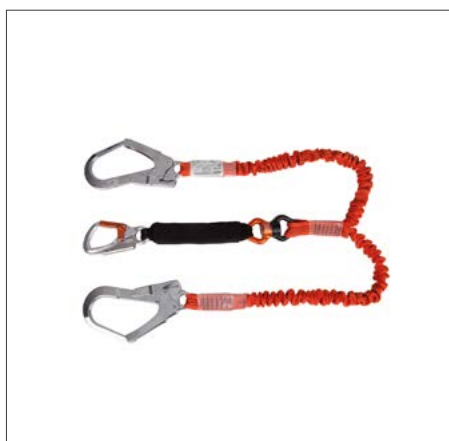


TAPE SLING (EN 354/EN 566/EN 795)

- Material: Polyester (PES)
- Dimensions: 25 x 2 mm
- Lengths: 0.6/0.8/1.2/1.5/2 m
- Load capacity: 22 kN

Creation of anchor points (EN 795)
use as mountain climber equipment (EN 566)
use as lanyard (EN 354)

PSA-TAPE-060
PSA-TAPE-080
PSA-TAPE-120
PSA-TAPE-150
PSA-TAPE-200



Y-STRETCH

Double-strand lanyard made of stretch belt with stretch construction and shock absorber

- Material: 33 mm stretch belt
- Plastic: PA polyamide, PES polyester
- Fittings: aluminium, steel
- Colour: orange/black
- Weight: 1.68 kg
- Lengths: 1.05/1.5/2 m
- Temperature: -35°C to 40°C
- Standard: EN 354, EN 355

H10006667



STORAGE CABINET FOR PPE

- Material: steel painted white
- Colour: white
- Dimensions: 600 x 400 x 250 mm

for practical and splash-proof storage of PPE

PSA-SCHRANK-W

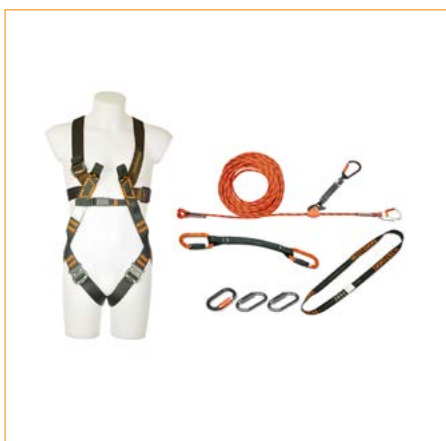


PSA-SET for universal activities

PSA-SET-BASIC

Contents of set:

- 1x PSA-STRING-1, safety harness, EN 358/EN 361
- 1x PSA-BRAKE-10, sheathed core rope (Ø 12mm)
with guided type fall arrester, integrated shock absorber
Length: 10 m (EN 353-2/EN 358/EN 795)
- 1x PSA KARI-1 (triple-lock carabiner, aluminium, EN 362)



PPE SET for work on pitched roofs

PSA-SET-DACH

Contents of set:

- 1x PSA-STRING-1, safety harness, EN 358/EN 361
- 1x PSA-STRING-2, length 470 mm, EN 354
- 1x PSA-BRAKE-10, sheathed core rope (Ø 12mm) with guided type fall arrester
and integrated shock absorber, length: 10 m (EN 353-2/EN 358/EN 795)
- 1x PSA TAPE-80, (tape sling, length 0.8 m, EN 354/EN 566/EN 795)
- 1x PSA KARI-1, (triple-lock carabiner, aluminium, EN 362)
- 2x KA-TL-10-362-A2, (triple-lock carabiner, stainless steel, EN 362)

SET ARTICLE

ASSOCIATED EQUIPMENT

PPE - Associated equipment



FALL ARREST DEVICE (EN 360)

- Material, housing: aluminium, plastic
- Steel rope, galvanised

HSG-41-HWPS-3:
Weight: 1.9 kg, length: 3 m (EN 360)

HSG-41-HWS-6:
Weight: 3.0 kg, length: 6 m (EN 360)

HSG-41-HWS-9:
Weight: 3.7 kg, length: 9 m (EN 360)

HSG-41-HWS-12:
Weight: 5.4 kg, length: 12 m (EN 360)

HSG-41-HWPS-3
HSG-41-HWS-6
HSG-41-HWS-9
HSG-41-HWS-12



FALL ARREST DEVICE (EN 360)

- Material, housing: aluminium, plastic
- Harness strap (plastic)

HSG-41-HWB-3.5:
Weight: 1.4 kg, length: 3.5 m (EN 360)

HSG-41-HWPB-9:
Weight: 2.3 kg, length: 9 m (EN 360)

HSG-41-HWPB-12:
Weight: 3.4 kg, length: 12 m (EN 360)

HSG-41-HWB-3.5
HSG-41-HWPB-9
HSG-41-HWPB-12



TELESCOPIC BAR

- Length: 1.8 to 4.6 m

H10010313



ELEPHANT DESCENDER DEVICE (EN 341)

H10010316

- Material, housing: steel/aluminium combination
- Braking system: automatic, redundant braking system (2 centrifugal brakes, brake drums made of steel)
- Carabiner: automatic aluminium carabiner, others on request
- Cable: 9.6 mm static polyamide sheathed core rope as per EN 1891-A 0 (30 m length mounted on the device)
- Strength: ≤ 225 kg
- Descent velocity: approx. 0.8 m/sec (independent of load)
- Max. descent height: 300 m with 225 kg
- Temperature: -35°C to 40°C

The ideal rescue device for people who are no longer able to descend from heights due to a power failure or other unforeseeable events. The device can easily be operated by one person. The descending speed is controlled automatically. In addition, the opposed cable can be slowed down or stopped with little effort (by hand). Abseiling in shuttle mode significantly shortens the rescue time. For high-level operation areas, lifting platforms, working baskets and platforms, cableways, high-rise buildings, fire brigades, etc. Standard: EN 341: 2011-1A



ELEPHANT HUB RESCUE DEVICE (EN 341)

H10009843

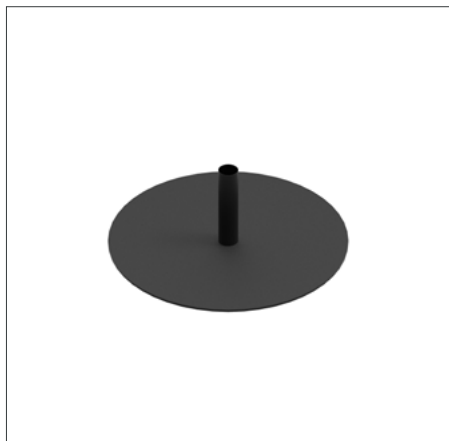
- Material, housing: steel/aluminium combination
- Braking system: automatic, redundant braking system (2 centrifugal brakes, brake drums made of steel)
- Carabiner: automatic aluminium carabiner, others on request
- Cable: 9.6 mm static polyamide sheathed core rope as per EN 1891-A 0 (30m length mounted on the device)
- Strength: ≤ 225 kg
- Descent velocity: approx. 0.8 m/sec (independent of load)
- Max. descent height: 300 m with 225 kg
- Temperature: -35°C to 40°C

With the additional lifting function of the "ELEPHANT HUB", a casualty can be abseiled or lifted over short distances in order to make the rescue easier. For fast rescue 2 people can be abseiled or raised at the same time. A telescopic rod, available as an additional item, allows the carabiner of the descender device to be hooked up even at a distance to the fall-arrest eyelet of the person who has had an accident and thus to simplify the rescue.

For high-level operation areas, lifting platforms, working baskets and platforms, cableways, high-rise buildings, fire brigades, high rescue, etc. Inspection interval 1x per year or 10000 m distance abseiled (when used regularly) Standard: EN 341:2011-1A, EN 1496:2007 BPSP

ASSOCIATED EQUIPMENT

Product - associated equipment



SEALING SLEEVE

with shrink tube

- Total height: 300 mm
- Pipe diameter: 20 mm
- Elastomer/bitumen sheeting: Ø 430 mm
- Material: sanded bitumen, plastic

Suitable for EAP-POINT and EAP-QUAD

ADM-20



SEALING SLEEVE

with shrink tube, UV-resistant

- Total height: 250 mm
- Pipe diameter: 33 mm
- Elastomer/bitumen sheeting: Ø 470 mm
- Material: sanded bitumen, plastic
- UV-resistant

Suitable for EAP-POINT and EAP-QUAD

ADM-33-UV



SEALING SLEEVE

with shrink tube

- Total height: 300 mm
- Pipe diameter: 50 mm
- Elastomer/bitumen sheeting: Ø 430 mm
- Material: sanded bitumen, plastic

Suitable for EAP-STABIL and AIO-STA

ADM-50



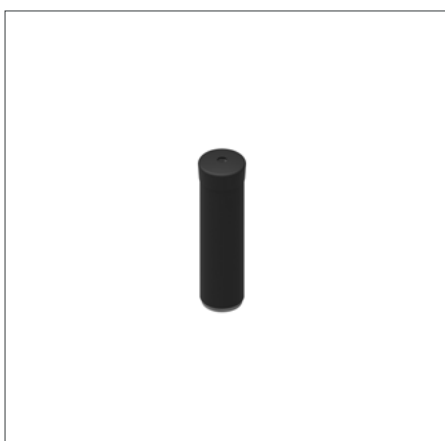
SEALING SLEEVE

with shrink tube, UV-resistant

- Total height: 250 mm
- Pipe diameter: 55 mm
- Elastomer/bitumen sheeting: Ø 470 mm
- Material: sanded bitumen, plastic
- UV-resistant

Suitable for EAP-STABIL and AIO-STA

ADM-55-UV



THERMAL INSULATION CAP

iØ 16 mm

- Height: ~ 300 mm
- Material: Plastic

Suitable for EAP-POINT and EAP-QUAD

ISOL-16-300



THERMAL INSULATION CAP

iØ 50 mm

- Height: ~ 300 mm
- Material: Plastic

Suitable for EAP-STABIL and AIO-STA

ISOL-16-300

ASSOCIATED EQUIPMENT

Product - associated equipment



EXTENSION SLEEVE

Ø 48 mm

- Extension: up to a maximum of 200 mm
- Material: stainless steel 304

Must not be used for AIO end and corner points

Only for AIO-SZH-10

Suitable for EAP-STABIL and AIO-STA

VL-10-200



EXTENSION SLEEVE

M16

- Extension: up to a maximum of 50 mm
- Material: stainless steel

Must not be used for EAP and AIO end and corner points

Only for AIO-SZH-10

Suitable for AIO-FALZ, AIO-SAND, AIO-VARIO

ADM-50



LUBRICANT

for stainless steel threads

- 3x WEICON AntiSeize syringes
ASW 10000 (1 ml in 3 ml syringe)

MONT-ANTISEIZE-VE3



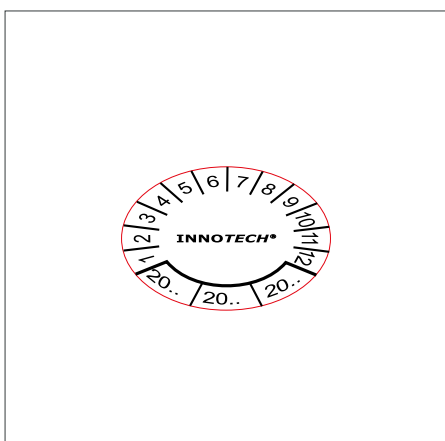
IDENTIFICATION OF LIFELINE SYSTEM

End of cable span

- Material: stainless steel 304, aluminium, plastic

Is attached directly to the cable, and indicates the system end

AIO-STOP



INSPECTION PLATE

INNOTECH®

- Colour: white sheet, black letters
- Packaging unit: 10 items
- Material: Plastic

INNO-PLAK



TRIPOD (EN 795 TYPE B)

- Material: aluminium, steel
- Weight: 16.7 kg (size PRO-2); 23.8 kg (size PRO-3)
- Max. height: 2.6 m (size PRO-2); 3.02 m (size PRO-3)
- Assembled height: 1.22 m (size PRO-2); 1.55 m (size PRO-3)
- Container opening: 1 - 1.8m (size PRO-2); 1 - 2.25 m (size PRO-3)
- 1 guide pulley, 1 chain (feet)
- Anchor points on the top
- Tuff Klik quick-release system
- Foldable feet with points as ground anchor

H10010311

ASSOCIATED EQUIPMENT

Installation - Associated equipment



INSTALLATION SET-1

for AIO lifeline systems

- 1x ring spanner set and ratchet set for system installation
- 1x cable shears, 1x plastic mallet
- 1x parallel tension clamp, 1x small chain hoist
- 1x torque spanner (4 - 20 Nm)
- 3x long nuts (13 mm, 19 mm, 24 mm)
- 1x PSA TAPE-60 tape sling (EN 354, EN 795 B, EN 566, EN 1498 C)
- 1x internal hex nut 1/4"

MONT|START



INSTALLATION SET-2

for Innotech systems

- 1x ring spanner set and ratchet set for system installation
- 1x cable shears, 1x plastic mallet
- 1x parallel tension clamp (for Ø 3 - 9 mm)
- 1x small chain hoist (3 m) up to 250 kg
- 2x torque spanners (4 - 20 Nm, 10 - 100 Nm)
- 6x long nuts (13 mm, 15 mm, 17 mm, 18 mm, 19 mm, 24 mm)
- 1x PSA TAPE-60 tape sling (EN 354, EN 795 B, EN 566, EN 1498 C)
- 2x extensions (1/4", 1/2")
- 1x drill bit set (bit Ø 6.5 mm, step drill bit Ø 7 - 32.5 mm)
- 1x telescopic pipe cutter

+ accessories (internal hex set, bit set, steel wire brush set, ...)

MONT|PRO



TORQUE SPANNER

(10 to 100 Nm)

- including 1x long nut (19 mm)

MONT-M



TORQUE SPANNER
(4 to 10 Nm)

MONT-025



CABLE SHEARS
for cutting the AIO CABLE (Ø 8 mm)

MONT-S



RIVET PLIERS
(set in case)

MONT-N

Leverage rivet pliers to place blind rivets (3.2 - 6.4 mm)
Threaded nuts (M4 - M10)



SHEET METAL DRILL
up to Ø 32 mm

MONT-BO-32



4-BIT HARD METAL DRILL SDS-PLUS

- Ø 18 mm
- Work area: 200 mm or 400 mm

MONT-BO-18-250/18-450



COMPOUND MORTAR

- 1x 390 ml cartridge (Fischer FIS SB 390 S with Super-bound system)
- 2x static mixers

Can be used with EAP-point-13, EAP-LOCK, EAP SPAR, etc.

MONT-FIS-SB390S



PIPE BENDING MACHINE

with flaring feature

- maximum bending angle = 90°

Suitable for special corner creation in the AIO lifeline system (AIO-EDLE-16, AIO-EDLE-19)

Prior to flaring, lubricate the stamp with anti-seize paste

MONT-RBM



MANUAL DRUM UNWINDER

(set in case)

- Material: steel-welded construction, plastic-coated
- Feet: Plastic
- Ball-bearing axle
- Handles with edge protection
- Roll-up ramp
- Feed rollers can be multiply adapted to drum diameters of 150 - 700 mm
- Drum: Ø 150-700 mm
- Drum width: max. 520 mm
- Drum weight: max. 140 kg
- L x W x H: 550 x 530 x 80 mm
- Colour: RAL 7005, mouse grey
- Weight: approx. 8 kg

H10010310

ASSOCIATED EQUIPMENT

Fastening - Associated equipment



FASTENING BOLT
for wooden substructure, Ø 8 mm

- Material: galvanised
- To match the actual fastening set to the substructure

Comply with the minimum perforation depth in the statically load-bearing construction, as specified in the instruction manual for the respective product

Special lengths upon request

HBS-08-080-T40-VZ
HBS-08-100-T40-VZ
HBS-08-120-T40-VZ
HBS-08-140-T40-VZ
HBS-08-160-T40-VZ
HBS-08-180-T40-VZ
HBS-08-200-T40-VZ
HBS-08-220-T40-VZ
HBS-08-320-T40-VZ
HBS-08-360-T40-VZ
HBS-08-400-T40-VZ



Washer:
(DIN 125, ISO 7089/7090) without chamfer iØ 10.5 mm, M10
Washer:
(DIN 125, ISO 7089/7090) without chamfer iØ 13 mm, M12

BS-M10-0-125-A2
BS-M12-0-125-A2
BS-M16-0-125-A2
KS-M16-0-9021-A2

Washer:
(DIN 125, ISO 7089/7090) without chamfer iØ 17 mm, M16

Diameter washer:
(DIN 9021, ISO 7093) without chamfer iØ 17 mm, M16

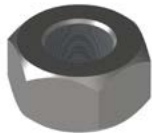
- Material: stainless steel 304



WASHER
for woodworking screws with countersunk head, Ø 8.4 mm

- Material: galvanised steel

HF-07-201-010-ST



Hex nut:
(DIN 934, ISO 4032) with standard thread M12

Hex nut:
(DIN 934, ISO 4032) with standard thread M16
• Material: stainless steel 304

SKM-M12-0-934-A2
SKM-M16-0-934-A2



Lock nut:
(DIN 985, ISO 7040) M12

Lock nut:
(DIN 985, ISO 7040) M16

• Material: stainless steel 304

SM-M12-0-985-A2
SM-M16-0-985-A2



Threaded rod:
(DIN 976) M12 x 1000 mm

Threaded rod:
(DIN 976) M16 x 1000 mm

• Material: stainless steel 304

GS-M12-1000-976-A2
GS-M16-1000-976-A2



Hex bolt:
(DIN 933, ISO 4017) with standard thread w/o
shaft/M10 x 20 mm

Hex bolt:
(DIN 933, ISO 4017) with standard thread w/o
shaft/M10 x 25 mm

Hex bolt:
(DIN 933, ISO 4017) with standard thread w/o
shaft/M10 x 30 mm

Hex bolt:
(DIN 933, ISO 4017) with standard thread w/o
shaft/M12 x 40 mm

Hex bolt:
(DIN 933, ISO 4017) with standard thread w/o
shaft/M12 x 60 mm

Hex bolt:
(DIN 933, ISO 4017) with standard thread w/o
shaft/M12 x 70 mm

SKS-M10-020-933-A2
SKS-M10-025-933-A2
SKS-M10-030-933-A2
SKS-M12-040-933-A2
SKS-M12-060-933-A2
SKS-M12-070-933-A2
SKS-M16-060-933-A2
SKS-M16-070-933-A2

Hex bolt:
(DIN 933, ISO 4017) with standard thread
w/o shaft/M16 x 60 mm

Hex bolt:
(DIN 933, ISO 4017) with standard thread
w/o shaft/M16 x 70 mm

- Material: stainless steel 304



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