rothosafe

2009

FALLPROTECTION

rothoblaas®.com

rothoblaas was founded in August 1991 as a distributor of machinery for structural carpentery work, riveting machines and power tools. In 1996 rothoblaas considerably extended its product range by including assembly systems and equipment for structural carpentry. In 2000 rothoblaas moved from Bolzano to larger premises in Ora more suitable for its requirements. Due to the continuing rapid growth of its business forte, however, the plant in Ora soon became too small for it so in December 2002 rothoblaas decided to purchase a building lot in the industrial zone of Cortaccia, on the quality wines route. An ideal position, also but not only for logistical reasons. Upon completion of just one year of building works, in August 2004 the company moved to its new premises, with its futuristic architectural design by the young design team at team at studio monovolume, which features wood, steel and glass as chief construction materials. Today rothoblaas can count on a total workforce of 150 persons. The constantly expanding rothoblaas sales network is now present in 14 European countries.

rothosafe

rothoblaas seeks to protect the lives of roofing workers through training courses (for instance, those held in collaboration with the APA – Provincial Association of Artisan Trades and the CPE – Building Industry Joint Committee) and through technical consultancy on safety systems.
The rothosafe range of fall arrester protective devices are designed for maintenance and repair work and provide innovative solutions for various types of roofs. Each device is not only certified for conformity with UNI EN 795 standards but is also type-approved for the support substructure (wood-metal-concrete).
Right from the planning phase, it is necessary to study a functional and safe scheme for correctly positioning the attachment points, whether individual or with a flexible horizontal cable (life-line), on the roof. For this purpose, rothosafe provides design-phase support to identify and plan the most appropriate anti-fall safety systems.

rothofixing

The Fixing Systems trademark, created in 1998, distinguishes a product line of fixing systems, machinery and equipment necessary for carpentery work. In 1999 the first complete catalogue for carpenters was launched. As time passed the brand assumed a very prominent role, first on the Italian market then from 2007 onwards in the rest of Europe too. Thanks to the high quality products studied and designed by its technical staff, the line offers a range of vocational and latest-generation fastening products (for instance, HBS screws) and other innovative systems in the invisible jointing field.
Its high technical quality is accompanied by the training provided every year to carpenters and designers, supported by our technical staff who organize specific courses and seminars for wood-sector professionals.
Since Autumn 2008 the Fixing Systems trademark has been replaced by rothofixing, a new logo for the same top-level quality as always.
The role of technology and know-how in the field of wooden structure jointing is fundamentally important for both the user and the designer.

rothofer

rothoblaas is currently specialised in distribution, with a channel of retailers and wholesalers.
The line rothofer commercialises electrical tools for work on wood and fixing systems for wooden structures. With a network in sales which includes 12 different agencies in all of Italy, rothofer also sells from wholesale to groups of buyers as well as a line of Mafell prodcuts offering advice and with possibility to organise an open house and courses specifically for Mafell and Holzher products.

rothouse

The rothouse concept groups the range of accessories for wooden houses and roofs under a single trademark, the symbol of rothoblaas quality and reliability.
The new catalogue contains a wide range of novelties and products specifically for the construction of ventilated roofs and wooden houses, offering a range of high-quality articles suitable for all requirements, designed to be at the cutting edge of the market.
As today concepts such as climate homes, ventilated roofs, thermic homes and habitation comfort are important themes in the construction sector from the energy-savings standpoint, rothouse unites this concept with that of rothoblaas aiming to assure a complete service for its customers which has distinguished it through the years.
For this reason this line, already present in the 2008 catalogue, is presented in 2009 in a completely renewed format to give this very widely-felt theme all the importance it deserves.
Amongst its various noteworthy aspects, the new line of qualitatively competitive fabric panels aims to spread and preserve the advantage of a unique „Made in Italy“ product in this category.

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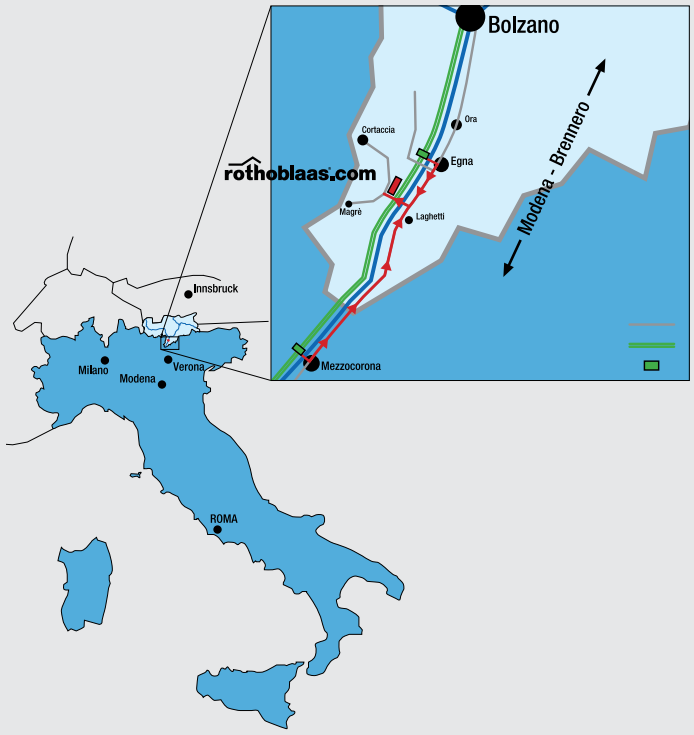
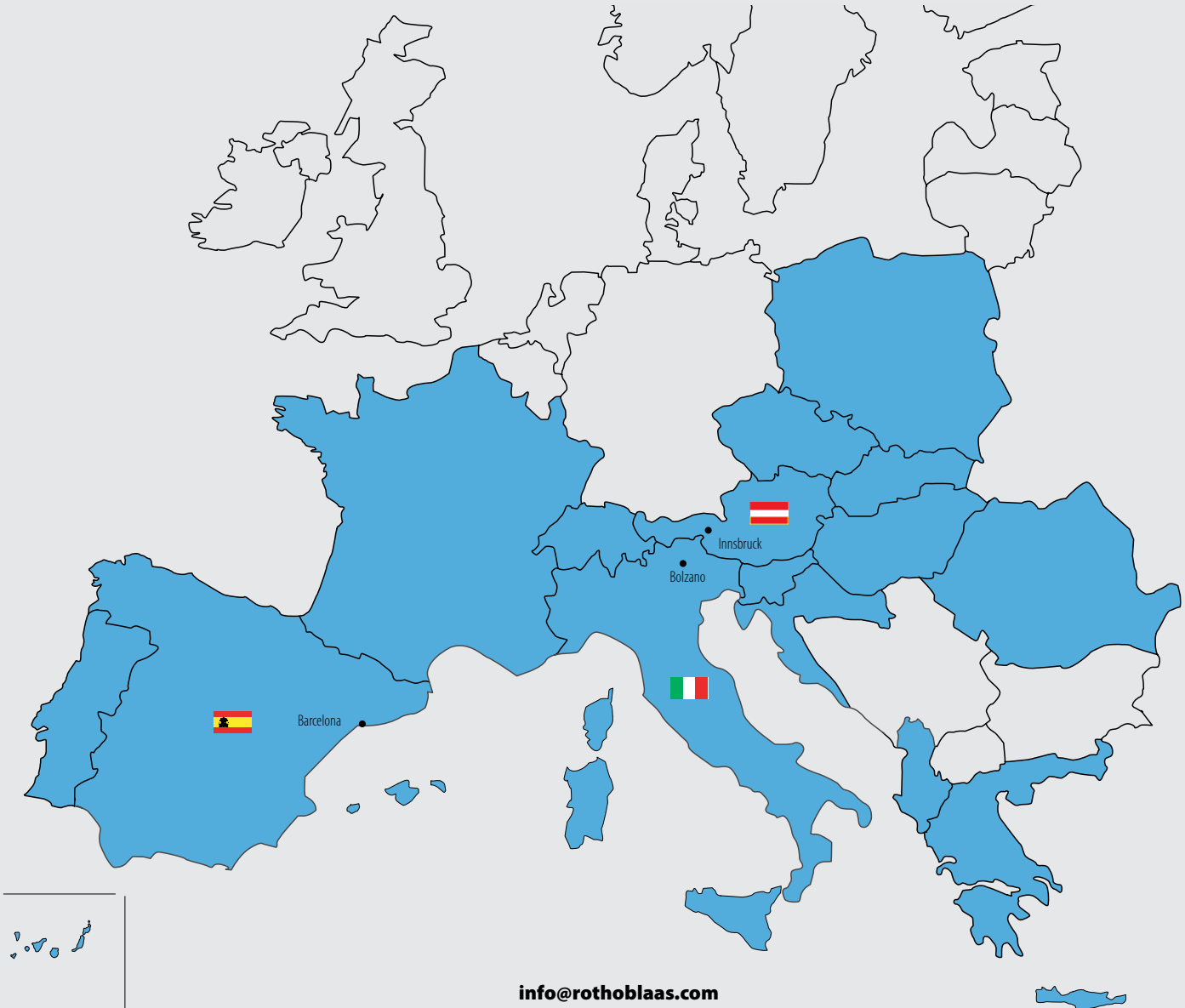
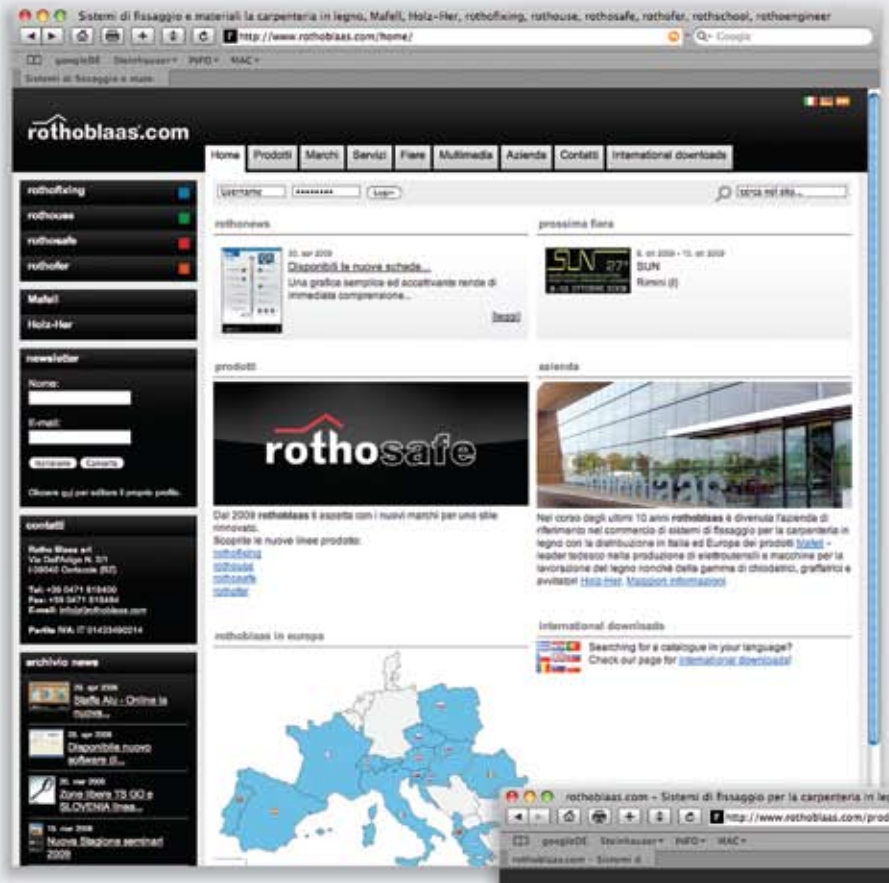




info@rothoblaas.com



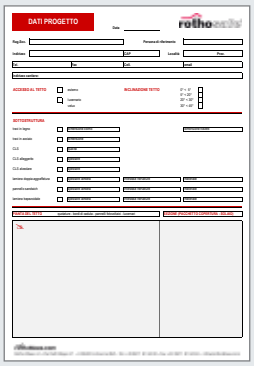
Select your language and download your chosen catalogue directly from our site:
www.rothoblaas.com

Download

Paper documents are not always practical and not always at hand. This is why the catalogue can also be downloaded from our site in digital format.

Thanks to the world wide web, the rothosafe catalogue is accessible wherever you are, whenever you need it.

To request a quotation, download the "PROJECT DATA" form.



REGULATORY REQUIREMENTS

Falls from heights are the most common type of accident with almost always dramatic consequences – permanent disablement or death. The person responsible for the building, along with the employer, managers and foremen can be charged with serious criminal offences and civil liability in the event of any violations or deficiencies in relation to the regulations currently in force.
In the case of works carried out at a height of over 2 m, the laws foresee the setting-up of appropriate temporary works such as scaffolding and edge protections. Exceptions to these regulations can be permitted only in cases in which jobs of brief duration (inspections, simple maintenance work, surveys etc.) are performed by trained personnel equipped with appropriate anti-fall safety systems.

Reference technical standards

Personal protective equipment against falls from a height – PPE

EN 341	Descender devices.
EN 353-1	Guided type fall arresters including a rigid anchor line.
EN 353-2	Guided type fall arresters including a flexible anchor line.
EN 354	Lanyards.
EN 355	Energy absorbers.
EN 358	Belts for work positioning and restraint and work positioning lanyards.
EN 360	Retractable type fall arresters.
EN 361	Full body harnesses.
EN 362	Connectors.
EN 363	Fall arrest systems.
EN 364	Test methods.
EN 365	General requirements for instructions for use and marking.
EN 397	Industrial safety helmets.
EN 813	Sit harnesses.
EN 1891	Low stretch kernmantle ropes.

Other standards

EN 516	Prefabricated accessories for roofing. Installations for roof access – walkways, treads and steps.
EN 517	Prefabricated accessories for roofing. Roof safety hooks.
EN 567	Mountaineering equipment. Rope clamps. Safety requirements and test methods.
EN 795	Protection against falls from a height. Anchor devices – requirements and testing.
EN 1263-1/2	Safety nets. Safety requirements for assembly, test methods.
EN 13374	Temporary edge protections. Product specification. Test methods.

TRAINING COURSES

Preparatory training and sensitization

rothoblaas is working in close liaison with the APA – Provincial Association of Artisan Trades – and with the – Building Industry Joint Committee.
We conduct complete training courses in our structure for both building-sector professionals and designers.

At these courses the participants are given the opportunity to:

- assemble and use anchor devices certified as per EN 795 on a realistic model of a roofing structure set up in the display hall
- be present at extraction tests with various nogs and screws on concrete and wood to verify the resistance loads
- analyse risks of falling from a height
- design roof anchor systems
- identify roof accesses
- inspect personal protection equipment PPE

Theoretical concepts

Assemby of life-line as per EN 795 C

Realistic model– practical examples

Extraction tests

PPE control check

CONSULTANCY AND DESIGN

Design considerations and choice of fall arrest devices

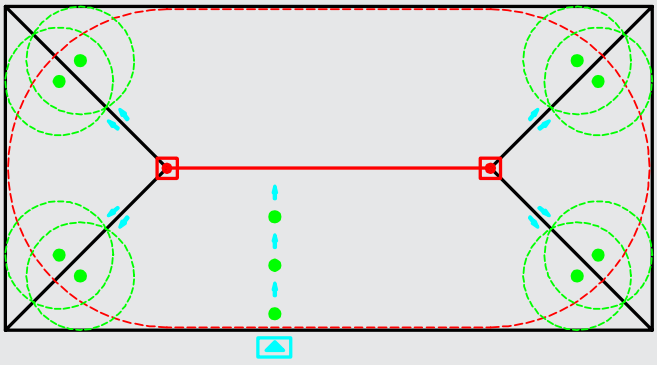
During the safety systems planning phase it is necessary to apply certain concepts in order to position the individual anchorage points or anchor devices with flexible horizontal anchor cables (life line) correctly on the roofing.
Each individual design project must be carefully analysed so as to define the most suitable safety systems.
The positioning of these systems on the roofing requires detailed study so as to minimize fall dangers.

Fundamental aspects to be taken into account by designers when planning a fall arrester system:

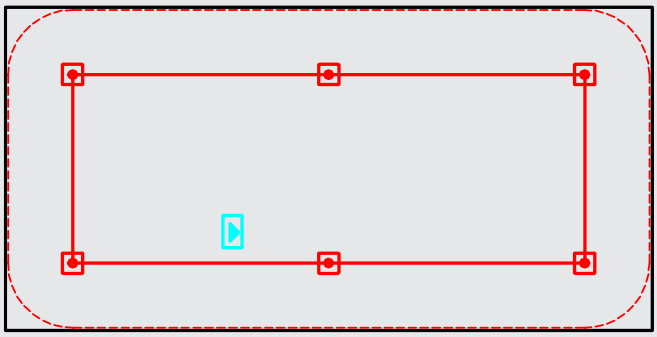
1. Position of roof access
2. Location of route on the roof to reach the primary anchor system
3. Location of the primary anchor system
4. Evaluation of fall distance and possible placement of additional devices to eliminate pendulum effect and provide possibility of restraint
5. Roof structure verification– on which the choice of anchor will depend

rothosafe offers full consultancy for the professional figures involved (e.g. designers) to ensure that the fall arrest systems designed are complete, appropriate and above all safe. To consult our experts, contact **rothosafe@rothoblaas.com**.
All persons who walk on roofs must be familiar with personal protection equipment against falls from heights. The instructions for assembly and use must be read and followed in order to avoid the danger of accidents.

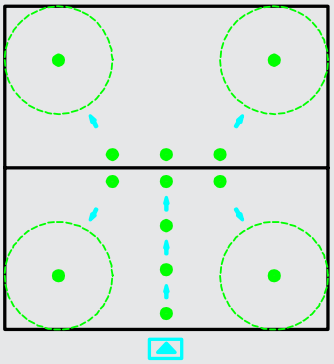
FOUR PITCH ROOF – EXTERNAL ACCESS



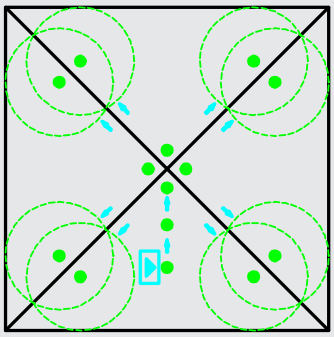
FLAT ROOF – SKYLIGHT ACCESS



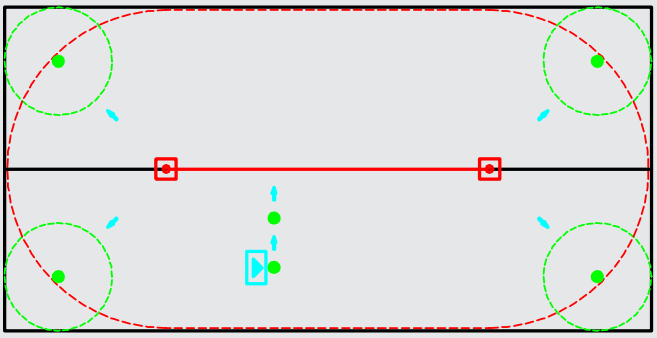
TWO PITCH ROOF
EXTERNAL ACCESS



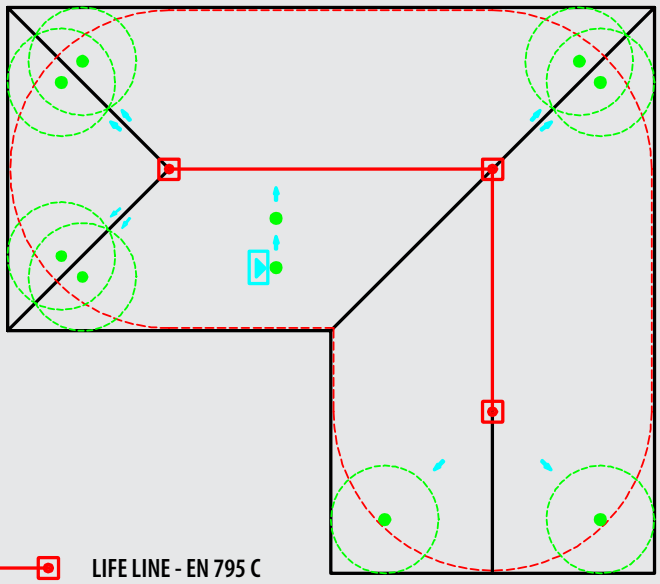
PYRAMID ROOF
SKYLIGHT ACCESS

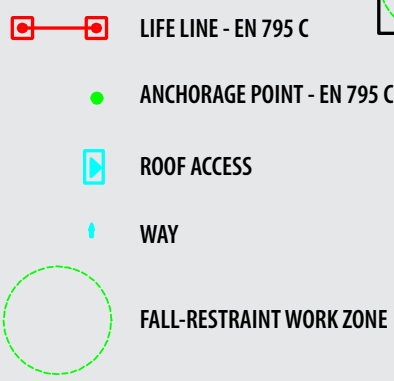


TWO PITCH ROOF – SKYLIGHT ACCESS



FOUR PITCH ROOF – SKYLIGHT ACCESS





GENERAL INDEX

Icons legend

steel

aluminium

stainless steel

hot-galvanized steel

usable by max. n° of persons

CE EN Standards

EN Standards

DIN Standards

including 360° swivelling anchorage eyelet

no drilling

Colours legend

wood

concrete

steel

1. ANCHOR DEVICES AS PER EN 795

REGULATIONS

Anchor devices are to be use on new buildings of every type and also on the occasion of works on existing buildings that also involve substantial reroofing.

These devices ensure anchorage by means of PPEs (Personal Protective Equipment) and make roof maintenance work fast and safe to execute.
The anchor devices must possess the requisites foreseen in EN 795:1996 "Protection against falls from a height – Anchor devices– requirements and testing",the EN specifications contained in them and subsequent updates.

To obtain certification, the anchor devices must pass a "100 kg mass from 2.5 m" dynamic resistance test and a "tractive force of 10 kN for 3 minutes" static test.
In addition to European standard EN 795, all rothosafe products are certified through static and dynamic resistance tests for the various surface materials (wood- metal -concrete) with the appropriate fastening sets.

DEFINITIONS

Anchor device: element or series of elements or components containing one or more anchorage points.
Anchorage point: element to which the personal protective equipment can be applied following the installation of the anchor device.
Anchor line: flexible line between structural anchors to which the personal protective equipment can be attached.

Standard specification EN 795 subdivides and classifies the various devices on the basis of their characteristics:

EN 795 Class A1: structural anchors designed to be fastened to vertical, horizontal and sloping surfaces such as walls, columns, lintels.

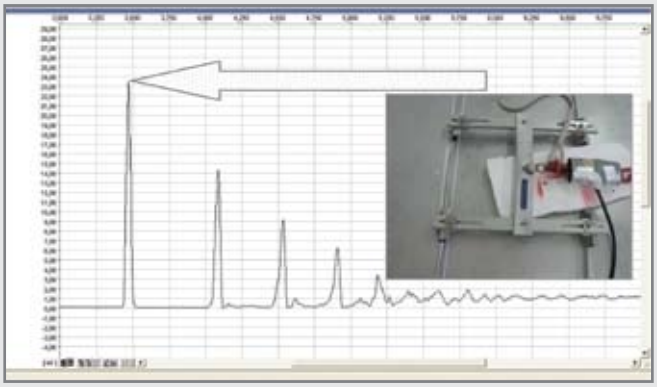
EN 795 Class A2: structural anchors designed to be fastened to sloping roofs.

EN 795 Class B: portable temporary anchor devices.

EN 795 Class C: anchor devices using flexible horizontal anchor lines, a horizontal line being understood to mean a line deviating from horizontal by not more than 15°.

EN 795 Class D: anchor devices using rigid horizontal anchorage tracks.

EN 795 Class E: dead-weight anchors for use on horizontal surfaces. For the purposes of using dead-weight anchors, a surface is considered horizontal if it deviates from horizontal by not more that 5°.




Zertifikat – Certificate

CHOICE OF ANCHOR DEVICE

In general, the type of fall arrest device to be used is chosen on the basis of the shape and structural characteristics of the roof.
For flat roofs, it is considered advisable to prefer the use of collective devices. If the choice falls on an anchor system, one can chose between an "EN 795 class C" life line, an "EN 795 class D" anchor track, an "EN 795 class E" dead-weight anchor or a series of "EN 795 class A" structural anchorage devices.
For sloping roofs, whether pitched or arched, one can choose between installing a series of "EN 795 class A" structural anchorages or "EN 795 class C" Lifelines. In addition to European standard EN 795 certification, all our products are certified by static and dynamic resistance tests for the most diverse surfaces with appropriate types of fastening devices.

EN 795 Class A anchorage point

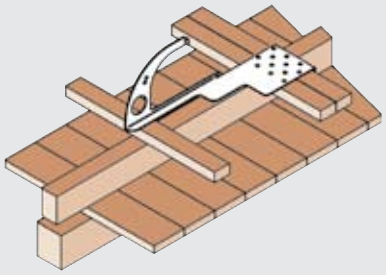
EN 795 Class C lifeline

ANCHORAGE POINTS EN 795 CLASS A

Element or series of elements or components containing one or more anchorage points, which act as connection elements between the load-bearing structure of the roof and the individual through the latter's PPE (personal protective equipment).
They are applied to new buildings of every type (residential, commercial, industrial, agricultural, etc.) and also on the occasion of works on existing buildings that also involve substantial re-roofing.
The single anchorage points are designed to be fixed to vertical, horizontal and sloping surfaces, such as walls, columns and lintels.

FLEXIBLE HORIZONTAL ANCHOR LINE EN 795 CLASS C LIFELINE

Element or series of elements or components containing one or more anchorage points, which act as connection elements between the load-bearing structure of the roof and the individual through the latter's PPE (personal protective equipment).
They are applied to new buildings of every type (residential, commercial, industrial, agricultural, etc.) and also on the occasion of works on existing buildings that also involve substantial re-roofing.
The term horizonal line means a line that deviates from horizontal by not more than 15°. The maximum centrepoint distance between two lifeline anchorages is 15 m. It may be necessary to reduce this distance for practical design reasons. The maximum length of a flexible horizontal anchor line is 250 m without interruption.



ROOF SAFETY HOOK

	code	length	material	colour	items/pack
CCH	SI200070	490	galvanized steel		1
CCJ	SI200071	490	galvanized steel		1
CCK	SI200072	490	galvanized steel		1
CDM	SI200073	490	galvanized steel		1
CDN	SI200080	490	natural stainless steel		1

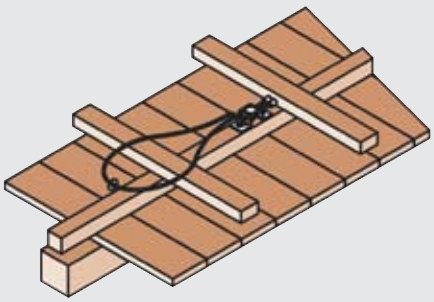
description

- fast-installed hook for sloping wooden roofs
- low weight, minimum impact on roof
- laser-made in one piece, with no welded parts
- excellent roof adaptability
- excellent safety with limited number of hooks
- for hooking ladders and as anchorage point for personal protective equipment

technical data

- fastened with 2 special HBS screws, Ø 8 length 100 - 400
- certified for all load directions as per EN 517 type B and EN 795 class A2
- certified also for use on insulation on joists
- min. joist size 80x80 mm

For detailed information on fastenings, see page 35 - HBS wood screws



SLING

	code	length	items/pack
DTJ	SI200090	420	1

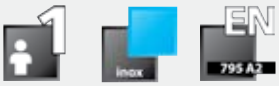
description

- anchorage to stainless steel cable
- for sloping wooden roofs with or without insulation above the joists
- light, almost invisible from the ground
- high flexibility to assure positioning on tiles

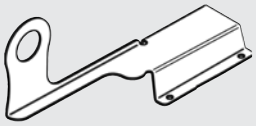
technical data

- fastened with 2 special HBS screws Ø 8 length 100-400 mm
- certified for all load directions as per EN 795 class A2 as anchorage point
- min. joist size 80x80 mm

For detailed information on fastenings see page 35 - HBS wood screws



CONCRETE PAS



	code	length	colour	items/pack
DTK	SI200075	419		1

description

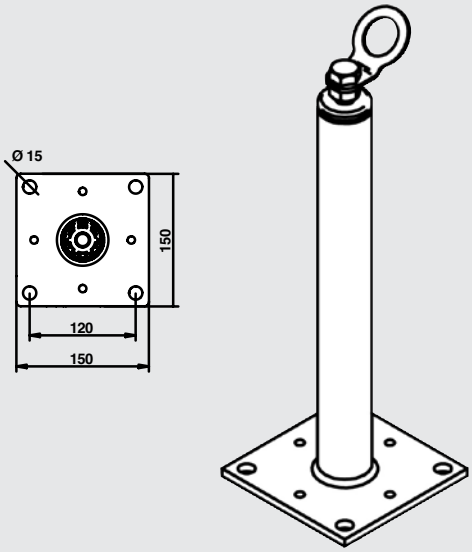
- for sloping concrete roofs
- fastened with appropriate heavy anchors such as SKS tightenable anchors

technical data

- certified for all load directions as per EN 795 class A2 as anchorage point
- min. thickness of concrete 40 mm, min. quality C16/20 - RCK200

For detailed information on fastenings see page 36 - SKS tightenable anchors

STABIL SUPPORT



	code	height	base plate	Ø support	items/pack
DTL	SI100091	300	150x150x8	48	1
DTM	SI100101	400	150x150x8	48	1
DTN	SI100111	500	150x150x8	48	1

description

- for wooden, concrete and steel substructures
- limited load transfer to load-bear structure
- support with internal foam thermoinsulation

technical data

- excellent base stability 5 kN
- certified in all load directions as per EN 795 class A2 as anchorage point
- min. dimensions of wood 160x160 mm
- min. quality of concrete:
  - for heavy anchor C20/25 - RCK250
  - for chemical anchor C15/20 - RCK200

For detailed information on fastenings see page 35-37 – codes SI100220, SI100240, SI100211, SI100250, SI100251, SI100252, SI100232

WOOD POINT

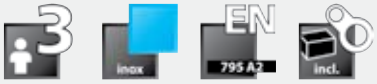
	code	height	Ø support	Ø tip	items/pack
CDP	SI100010	300	18	18	1
CDR	SI100020	400	18	18	1
CDS	SI100030	500	18	18	1

description

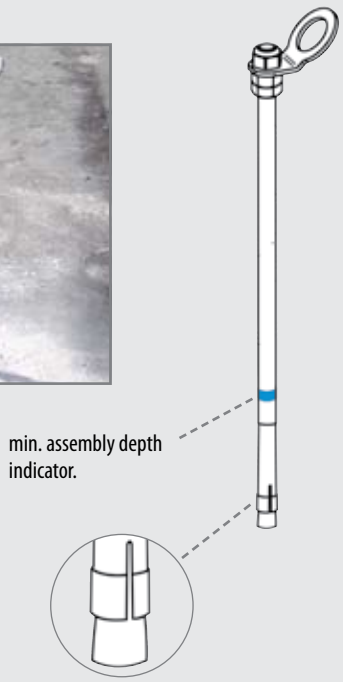
- easily and quickly assembled support
- assembled by screwing, suitable for flat or slightly sloping roofs
- equipped with an additional safety system inside the support
- once assembled, do not disassemble and reuse

technical data

- type-tested on wooden substructures
- certifiied for all load directions as per EN 795 class A2 as anchorage point
- min. wood dimensions 100x140 mm



CONCRETE POINT – TYPE A



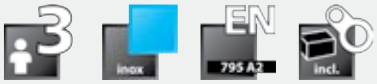
	code	height	Ø support	Ø tip	items/pack
CDT	SI100040	300	18	18	1
CDU	SI100050	400	18	18	1
DZ	SI100060	500	18	18	1

description

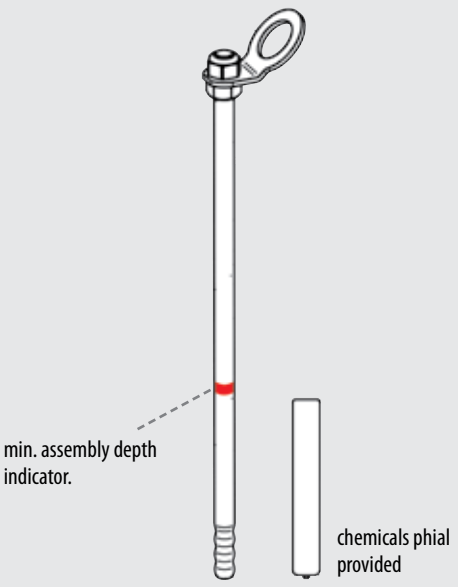
- quick and easy support assembly
- assembly by tightening at 40 Nm, suitable for flat or slightly sloping roofs
- torque checkable even after assembly
- ideal for periodical checking

technical data

- type-tested for concrete substructure min. quality C16/20 - RCK200
- certified for all load directions as per EN 795 class A2 as anchor point



CONCRETE POINT – TYPE B



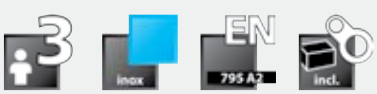
	code	height	Ø support	Ø tip	items/pack
DTV	SI100063	300	16	20	1
DTW	SI100064	400	16	20	1
DTX	SI100065	500	16	20	1

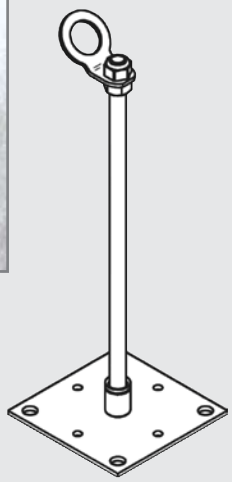
description

- easily and quickly assembled support
- assembled by adhesive bonding, suitable for flat or slightly sloping roofs
- use the snap-open chemicals phial provided

technical data

- type-tested on concrete substructures, min. quality C16/20 - RCK200
- certified for all load directions as per EN 795 class A2





QUADRAT UNIVERSAL

	code	height	base plate	Ø support	items/pack
CMY	SI100270	300	150x150x5	16	1
CNC	SI100280	400	150x150x5	16	1
CKK	SI100290	500	150x150x5	16	1

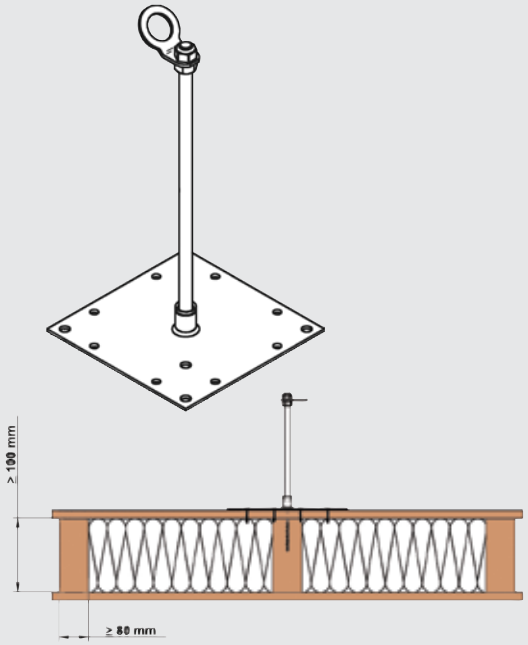
description

- for wooden, concrete and steel substructures
- with additional reinforcement bush

technical data

- certified for all load directions as per EN 795 class A2 as anchor point
- min. wood dimensions 160x160 mm
- min. concrete quality C20/25 - RCK250

For detailed information on fastening see page 35-37 - HBS Wood Screw Ø 8x120, SI100211, SI100320, SI100232



QUADRAT FOR WOOD SANDWICH STRUCTURES AND CONCRETE

	code	height	base plate	Ø support	items/pack
CMU	SI100370	300	235x235x4	16	1
CMT	SI100380	400	235x235x4	16	1
CMV	SI100390	500	235x235x4	16	1

description

- wooden base thickness 20 mm

technical data

- tested on OSB sandwich-board wood and concrete
- certified for all load directions as per EN 795 class A2 as anchorage point
- min. dimensions of wood 80x100 mm
- min. quality of concrete C20/25 - RCK250

For detailed information on fastenings, see pages 35-36 - HBS Wood Screws Ø8, SI100320

QUADRAT 1 FOR TRAPEZOIDAL PLATE

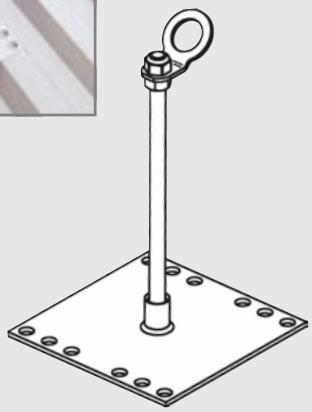
	code	height	base plate	Ø support	items/pack
CMW	SI100400	300	390x400x2	16	1
CMX	SI100410	400	390x400x2	16	1
CJK	SI100420	500	390x400x2	16	1

description

- self-boring screws for fastening included

technical data

- tested on load-bearing steel trapezoidal plate, min. thickness 0.75 mm
- certified for all load directions as per EN 795 class A2 as anchorage point



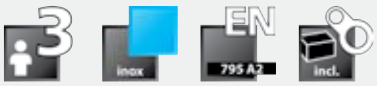
QUADRAT 2 FOR TRAPEZOIDAL PLATE

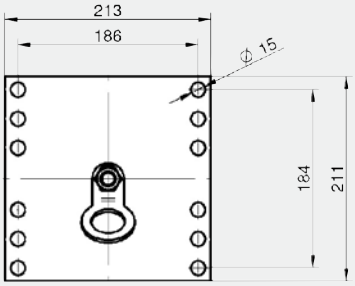
	code	height	base plate	Ø support	items/pack
DTY	SI100405	300	213x211x5	16	1
DTZ	SI100406	400	213x211x5	16	1
DUA	SI100407	500	213x211x5	16	1

technical data

- tested on concrete, min. quality C20/25 - RCK250 and load-bearing steel trapezoidal plate min. thickness 0,75 mm
- certified for all load directions as per EN 795 class A2 as anchorage point

For detailed information on fastenings, see pages 36-37
codes SI100211, SI100341





LOCK

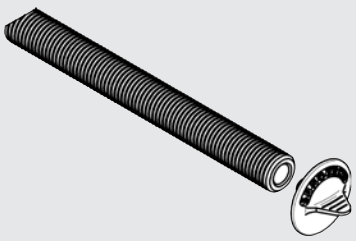
	code	weight	items/pack
DTP	SI100610	163 g	1

description

- disassemblable single anchorage point
- assembled on concrete/steel
- double-fastening safety lock

technical data

- certified for all load directions as per EN 795 class A2 as anchorage point



LOCK
SUPPORT BUSH FOR CONCRETE AND STEEL

	code	size	Ø tip	items/pack
DTR	SI100620	M22 x 100	24	1
DTS	SI100630	M22 x 150	24	1
DTT	SI100640	M22 x 200	24	1

description

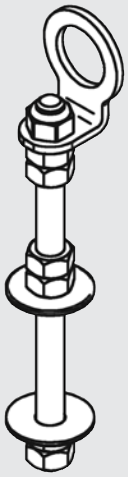
- with internal threading for extraction test
- for adhesive-bonding to concrete min. quality C16/20 - RCK200
- min. thickness of steel 5 mm

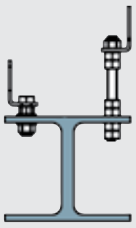
ANCOR

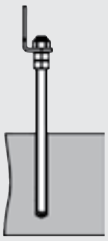
	code	Ø	weight	Ø tip	items/pack
DTU	SI100435	12	118 g	12	1

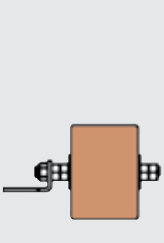
description

- for assembly on concrete and rock









SPAR

	code	height	size	Ø tip	items/pack
BZW	SI100440	50	M16 x 50 mm	16	1

description

- for steel structures built with material up to 27 mm thick
- min. thickness min. 4 mm

BYH	SI100450	125	M16 x 125 mm	18	1

description

- for adhesive bonding in concrete min. quality C20/25 - RCK250, min. depth 125 mm

AXB	SI100460	200	M16 x 200 mm	16	1
AWN	SI100470	300	M16 x 300 mm	16	1

description

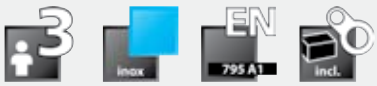
- for wooden, concrete or steel structures
- other sizes available upon request
- min. dimensions of wood 100x140 mm

description

- C20/25 concrete: adhesive-bonding to at least 125 mm
- wood with cross-section of at least 10/14 cm: screw-fastening
- steel with thickness of at least 4 mm: screw-fastening
- ideal as single anchorage-point at arrival on the roof

technical data

- certified for all load directions as per EN 795 class A1 as anchorage point

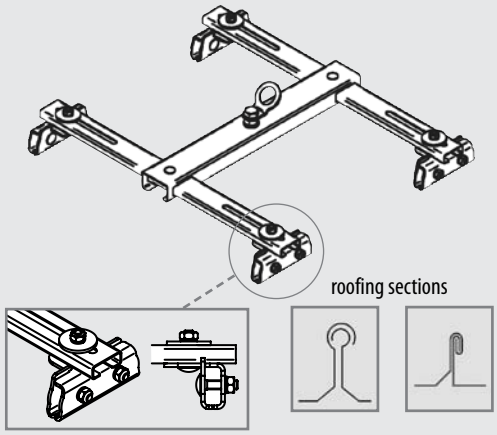


EYELET

	code	height	size	items/pack
CJL	SI100430	25	M16 x 45 mm	1

description

- eyelet anchorage for descender
- for standard support or as spare part



FALZ

	code	band width	items/pack
ADW	SI100670	350 - 640	1

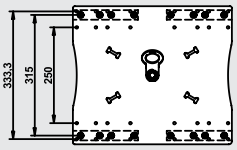
description

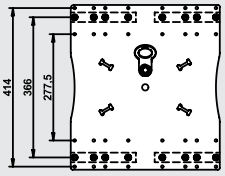
- anchor for metal seamed roofs and industrial roofing
- for roofs with straight vertical seaming: in alluminium, copper, titanium zinc, galvanized steel, stainless steel
- fast assembly with quick fastening system

technical data

- thickness of aluminium, copper, titanium zinc or galvanized steel plate min. 0,6 mm
- thickness of stainless steel seamed plate min. 0.4 mm
- metal industrial roofing sections: KALZIP, INTERFALZ standard, ZAMBELLI Rib-Roof 465, DOMICO GBS section
- certified for all load directions as per EN 795 class A2 as anchorage point

SANDWICH

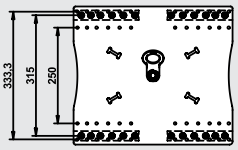


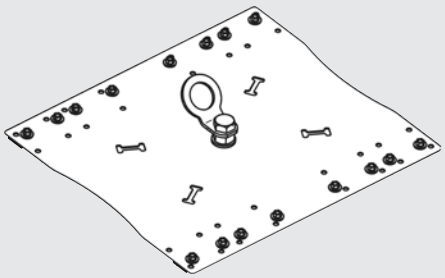


	code	base plate	items/pack
CWY	SI100550	360x415x2	1
CWZ	SI100570	430x389x2	1

description

- anchor for sandwich panels or trapezoidal plate roofing made of steel
- quick assembly with 6 rows x 8 holes each for 16 items including self-boring screws
- including adequate tape for sealing
- for sheet-metal with min. thickness 0.6 mm





	code	base plate	items/pack
CXA	SI100590	360x415x2	1

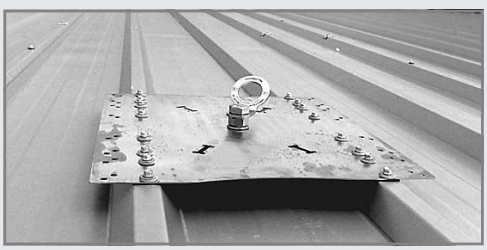
description

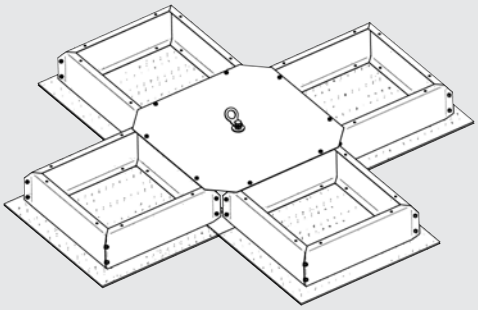
- anchor for sandwich panels or trapezoidal plate roofing made of aluminium
- quick assembly with 6 rows x 12 holes each for 24 items including self-boring screws
- including adequate tape for sealing
- for sheet-metal with min. thickness 0.6 mm

technical data

- certified for all load directions as per EN 795 class A2 as anchorage point

When ordering, please specify the shape and brand of the sheet-metal used.
Adapted for lower thicknesses of sheet-metal upon request!





VARIO

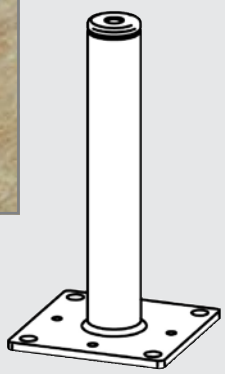
	code	size	weight	items/pack
CWX	SI100650	1675 x 1675	22 kg	1

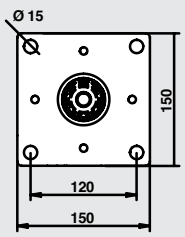
description

- ideal for flat roofs with slope of up to 3° ending in pent-house structure
- can be filled with concrete slabs (12 x 50/50/5 cm, 12 x 49/49/5 cm or 16 x 50/50/3.8 cm)
- final weight approx. 350 kg

technical data

- certified for all load directions as per EN 795 class E as anchorage point





STANDARD SUPPORT

	code	height	base plate	Ø support	items/pack
CXB	SI100960	300	150x150x8	48	1
CXC	SI100970	400	150x150x8	48	1
CXD	SI100980	500	150x150x8	48	1
CXE	SI100985	600	150x150x8	48	1
DUB	SI100986	700	150x150x8	48	1
DUC	SI100988	900	150x150x8	48	1

description

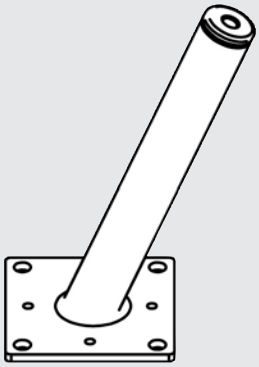
- for substructures of wood, concrete and steel
- limited load transfer to load-bearing structure
- support with internal foam thermo-insulation

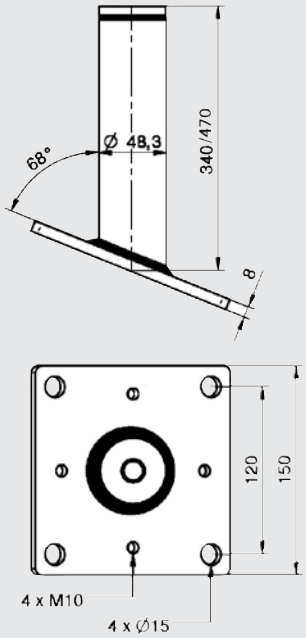
technical data

- high base stability 5 kN
- certified for life line as per EN 795 class C
- min. wood dimensions 160x160 mm
- min. concrete quality:
  - for heavy anchor C20/25 - RCK250
  - for chemical anchor C15/20 - RCK200

For detailed information on fastenings see pages 35-37 - codes SI100220, SI100240, SI100211, SI100250, SI100251, SI100252, SI100232

SUPPORT FOR SLOPING ROOFS





	code	height	base plate	Ø support	degrees	items/pack
CXF	SI100990	340	150x150x8	48	68°	1
CXG	SI101000	470	150x150x8	48	68°	1

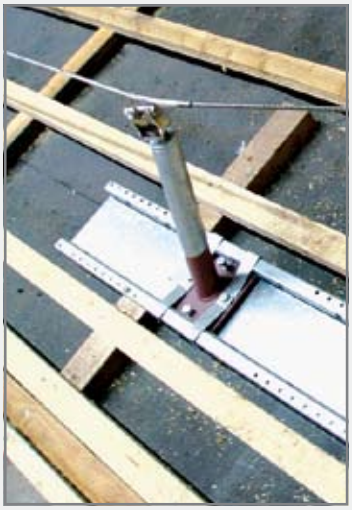
description

- for wooden substructures
- limited load transfer to load-bearing structure
- support with internal foam thermo-insulation
- in combination with fastening guides code SI100240

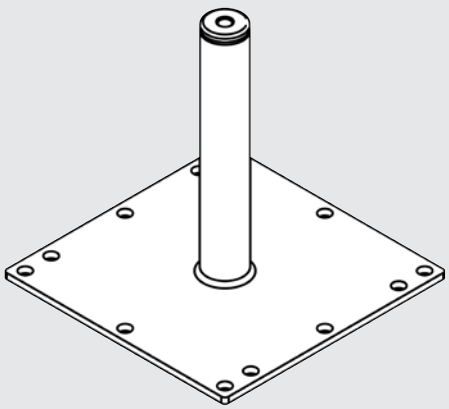
technical data

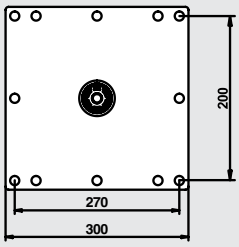
- high base stability 5 kN
- certified for life line as per EN 795 class C

For detailed information on fastenings see page 35 - SI100220, SI100240



LARGE BASE SUPPORT





	code	height	base plate	Ø support	items/pack
DUD	SI101010	300	300x300x8	48	1
DUE	SI101020	400	300x300x8	48	1
DUF	SI101030	500	300x300x8	48	1

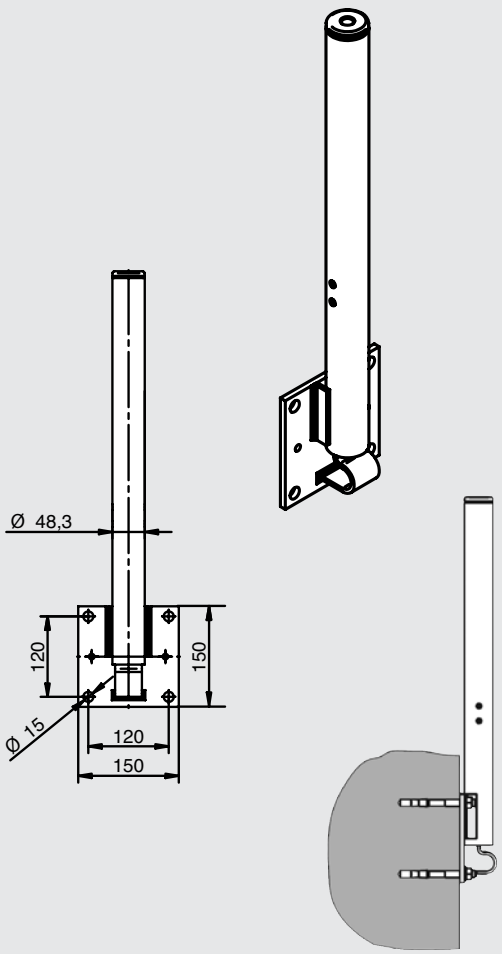
description

- for concrete and steel substructures
- limited load transfer to load-bearing structure
- support with internal foam thermo-insulation

technical data

- high base stability 5 kN
- certified for life line as per EN 795 class C
- min. concrete quality C20/25 - RCK250

For detailed information on fastenings see pages 36+38 - codes SI100211, SI100214, SI100233



LATERAL SUPPORT

	code	height	base plate	Ø support	items/pack
DUG	SI101001	500	150x150x8	48	1

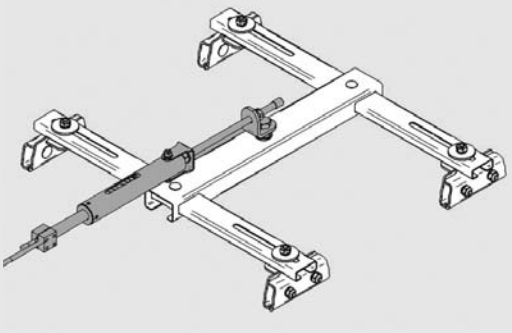
description

- for concrete and steel substructures
- limited load transfer to load-bearing structure
- support with internal foam thermo-insulation

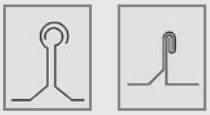
technical data

- high base stability 5 kN
- certified for life line as per EN 795 class C
- min. concrete quality:
  for heavy anchor C20/25 - RCK250
  for chemical anchor C15/20 - RCK200

For detailed information on fastenings see pages 36-37 - SI100211, SI100232



roofing sections



FALZ

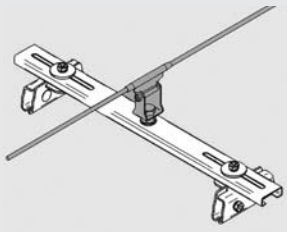
	code	band width	items/pack
CXH	SI101140	350 - 640	1

description

- terminal and corner anchor for metal seamed roofs and industrial roofing
- for roofs with straight vertical seaming: in alluminium, copper, titanium zinc, galvanized steel, stainless steel
- fast assembly with quick fastening system

technical data

- thickness of aluminium, copper, titanium zinc or galvanized steel plate min. 0.6 mm
- thickness of stainless steel seamed plate min. 0.4 mm
- metal industrial roofing sections: KALZIP, INTERFALZ standard, ZAMBELLI Rib-Roof 465, DOMICO GBS section
- certified for all load directions as per EN 795 class C as anchorage point



FALZ

	code	band width	items/pack
CXK	SI101180	350 - 640	1

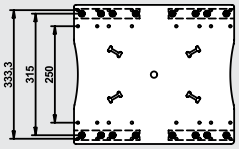
description

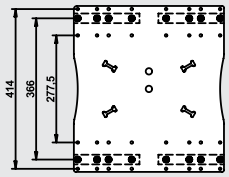
- intermediate anchor for metal seamed roofs and industrial roofing
- for roofs with straight vertical seaming: in alluminium, copper, titanium zinc, galvanized steel, stainless steel
- fast assembly with quick fastening system

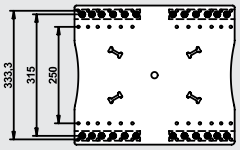
technical data

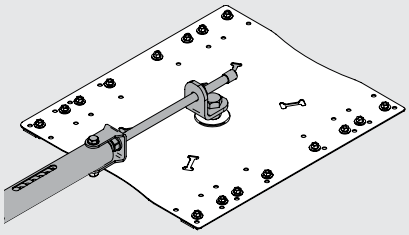
- metal industrial roofing sections: KALZIP, INTERFALZ standard, ZAMBELLI Rib-Roof 465, DOMICO GBS section
- thickness of aluminium, copper, titanium zinc or galvanized steel plate min. 0,6 mm
- thickness of stainless steel seamed plate min. 0.4 mm
- certified for all load directions as per EN 795 class C as anchorage point

SANDWICH









	code	base plate	items/pack
CXP	SI101240	360x415x2	1
CXR	SI101260	430x389x2	1

description

- terminal, corner and intermediate anchor for sandwich-panel or steel trapezoidal plate roofing
- quick assembly with 6 rows x 8 holes each for 16 items including self-boring screws
- including adequate tape for sealing
- for sheet-metal with min. thickness 0.6 mm

CXS	SI101280	360x415x2	1

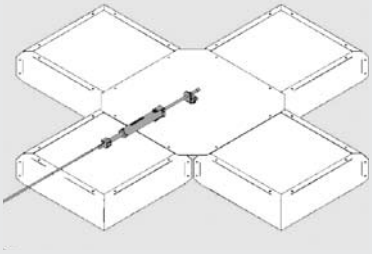
description

- terminal, corner and intermediate anchor for sandwich panels or trapezoidal plate roofing in aluminium
- quick assembly with 6 rows x 12 holes each for 24 items including self-boring screws
- including adequate tape for sealing
- for sheet-metal with min. thickness 0.6 mm

technical data

- certified for life line as per EN 795 class C

When ordering, please specify the shape and brand of the sheet-metal used.
Adapted for lower thicknesses of sheet-metal upon request!



VARIO

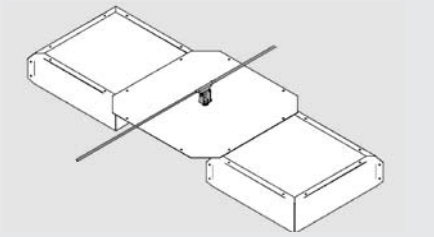
	code	size	weight	items/pack
CXM	SI101220	1675 x 1675	21,5 kg	1

description

- terminal and corner anchor for flat roofs
- ideal for flat roofs with slope of up to 3° ending in pent-house structure
- can be filled with concrete slabs (12 x 50/50/5 cm, 12 x 49/49/5 cm or 16 x 50/50/3.8 cm)
- final weight approx. 350 kg

technical data

- certified for life line as per EN 795 class C / E



VARIO

	code	size	weight	items/pack
CXN	SI101230	1675 x 586	13 kg	1

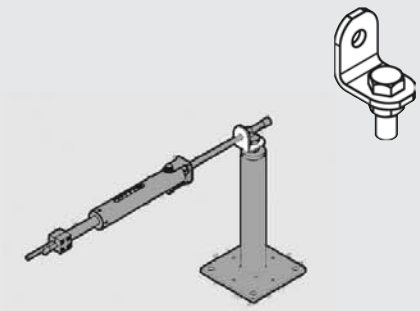
description

- intermediate anchor for flat roofs
- ideal for flat roofs with slope of up to 3° ending in pent-house structure
- can be filled with concrete slabs (6 x 50/50/5 cm, 6 x 49/49/5 cm or 8 x 50/50/3.8 cm)
- final weight approx. 180 kg

technical data

- certified for life line as per EN 795 class C / E

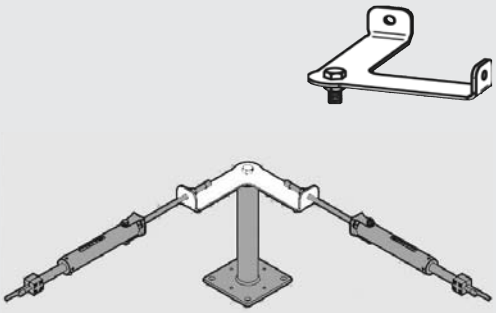
TERMINAL FASTENINGS
FOR SUPPORT, FALZ, SANDWICH OR VARIOUS



	code	items/pack
CXT	SI100850	1

description

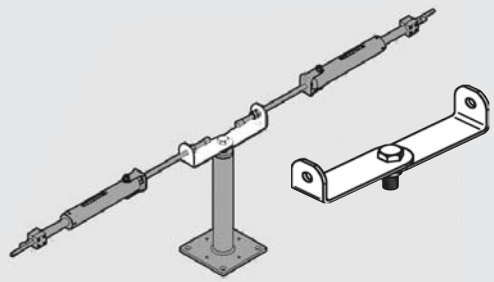
- for terminal fastening



CXW	SI100880	1

description

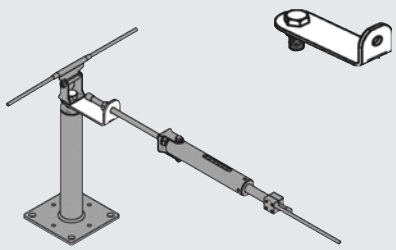
- corner
- for fastening two terminals at an angle of 90°



CXX	SI100890	1

description

- intermediate
- for fastening two terminals in a point



CXY	SI100900	1

description

- "T" shaped
- for fastening a second line by means of an intermediate support

technical data

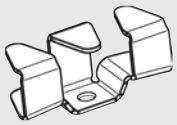
- certified for life line as per EN 795 class C

STRAIGHT INTERMEDIATE ELEMENTS
FOR SUPPORT, FALZ, SANDWICH OR VARIOUS

	code	items/pack
CYB	SI100910	1

description

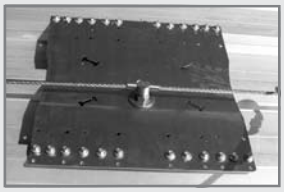
- pass-across
- for passing across with sliding devices without unhooking
- working range: 220°

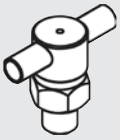


DUH	SI100915	1

description

- pass-across
- can be passed with a spring catch without unhooking





DUJ	SI100911	1

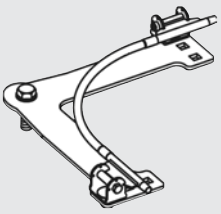
description

- non pass-across
- passed by means of a double-branched lanyard

technical data

- certified for life line as per EN 795 class C

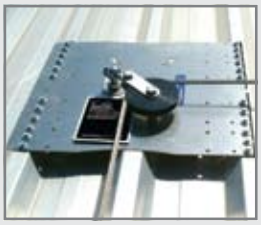
INTERMEDIATE ANGLE ELEMENTS
FOR SUPPORT, FALZ, SANDWICH OR VARIOUS

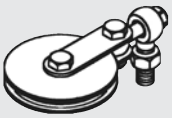


	code	degrees	items/pack
CYD	SI100930	90°	1

description

- crossability: internal, external or aerial





DUK	SI100913	45° - 160°	1

description

- non pass-across - passed by means of a double-branched lanyard

CYE	SI100940	45°	1

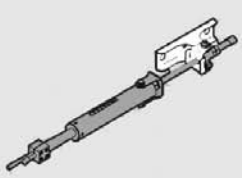
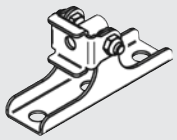
description

- crossability: internal

technical data

- certified for life line as per EN 795 class C

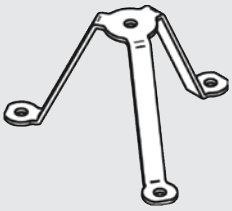
FACADE

	code	items/pack
CXU	SI100860	1

description

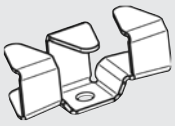
- terminal fastening
- for assembly on facades
- fastening device: two M16 anchors

CXV	SI100870	1

description

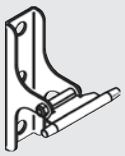
- terminal fastening
- fastening device: three M12 anchors

DUH	SI100915	1

description

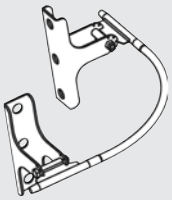
- pass-across
- can be passed with a spring catch without unhooking

CYC	SI100920	1

description

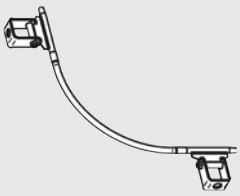
- straight intermediate pass-across element for facades
- for passing with sliding devices without unhooking
- working range: 220°
- fastening device: two M6 anchors

CYF	SI100950	1

description

- 90° angle intermediate pass-across element on facade
- crossability: internal, external or aerial
- fastening device: four M6 anchors

DUL	SI100951	

description

- 90° angle intermediate pass-across element on facade
- fastened with single threaded rod
- crossability: internal or external
- fastening device: two M6 anchors

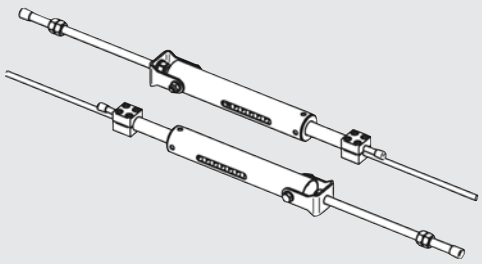
description

- for concrete substructures

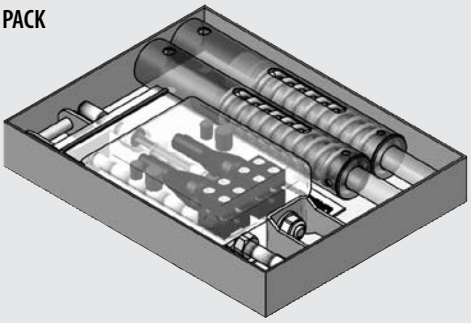
technical data

- certified for life line as per EN 795 class C

For detailed information of fastening see page 36 - SI100211, SI101330



PACK



TERMINAL SET

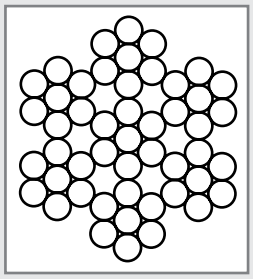
	code	items/pack
CYG	SI100750	2

description

- terminal closure set with built-in shock-absorber
- fast and easy assembly
- wedge and bush cable-lock
- built-in shock absorber
- cable tension indicator
- drop indicator clamp
- complete for both ends of a life line
- for maintenance work: easy checking

technical data

- certified for life line as per EN 795 class C



ANCHOR LINE

	code	Ø cable	breaking load min. [kN]	items/pack
CYH	SI100840	8	37,00	m

technical data

- 49 filaments (7x7)
- max. length for life line 250 m
- certified for life line as per EN 795 class C

ANCHOR-LINE SLIDING DEVICES

	code	items/pack
CYJ	SI100710	1

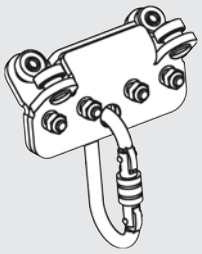
description

- removable
- for passing the transitional elements (intermediate line supports and bends)
- possibility of installing and removing at every point on the line

CYK	SI100740	1

description

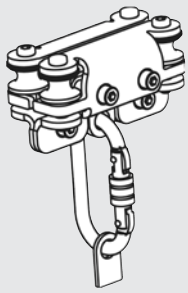
- fixed
- for passing the transitional elements (intermediate line supports and bends)
- non removable: is assembled as fixed element on the line



CYL	SI100720	1

description

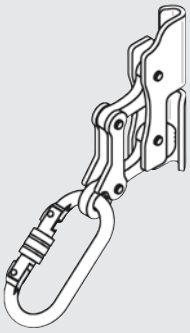
- with rollers, aerial
- for passing the transitional elements (intermediate line supports) in ceiling systems
- not suitable for passing bends



CYM	SI100730	1

description

- with rollers for bends, aerial
- for passing the transitional elements (intermediate line supports and bends) on ceiling systems



DUM	SI101640	1

description

- vertical
- certified for ascending and descending on life line with slant above 15°
- can be assembled and disassembled in any position

description

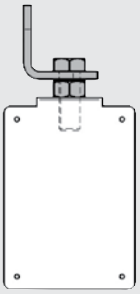
- easy to use
- several models
- works on both stretches of the line

technical data

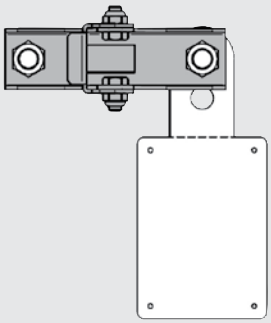
- as anchorage point for 1 person with personal protective equipment as per EN 363
- certified for life line as per EN 795 class C

Installing the model label-plate:

support example



facade example



MODEL LABEL-PLATE FOR EN 795 CLASS C LIFE LINE

	code	language	items/pack
CZF	SI102230	ITALIAN	1

description

- for EN 795 C life line
- also available upon request in the following languages: DE, SP, FR, NL, UK

CZM	SI102250	ITALIAN	1

description

- only on life line on Various as per EN 795 C - E
- also available upon request in the following languages: DE, SP, FR, NL, UK

use

The model label-plate is applied on the horizontal anchor line. It serves as a notice plate for all the anchor line system users. The model label-plates also provide important information such as the date of installation and the maintenance intervals.

Pack:
- model label-plate
- notice plate
- maintenance label
- instructions

SAFETY SYSTEM NOTICE PLATE

	code	items/pack
DUN	SI102235	1

use

Safety system notice-plate to be placed near the roof access.
It informs the user of the roof access and on the use of appropriate PPE for connection to the anchorage devices.

KIT 10m

KIT 15m

KIT 25m

The Lifeline Kit can be installed on sloping and flat roofs and facades. To limit the load from a possible fall, the anchor line is equipped with a built-in shock-absorber. Thanks to the combination of spring pre-loader and shock absorbers, in the event of a fall the forces on the end and angles points are reduced to max. 10 kN.

LIFELINE KIT

	code	length	Ø cable	items/pack
DUP	SI103010	10 m	8	1
DUR	SI103015	15 m	8	1
DUS	SI103025	25 m	8	1

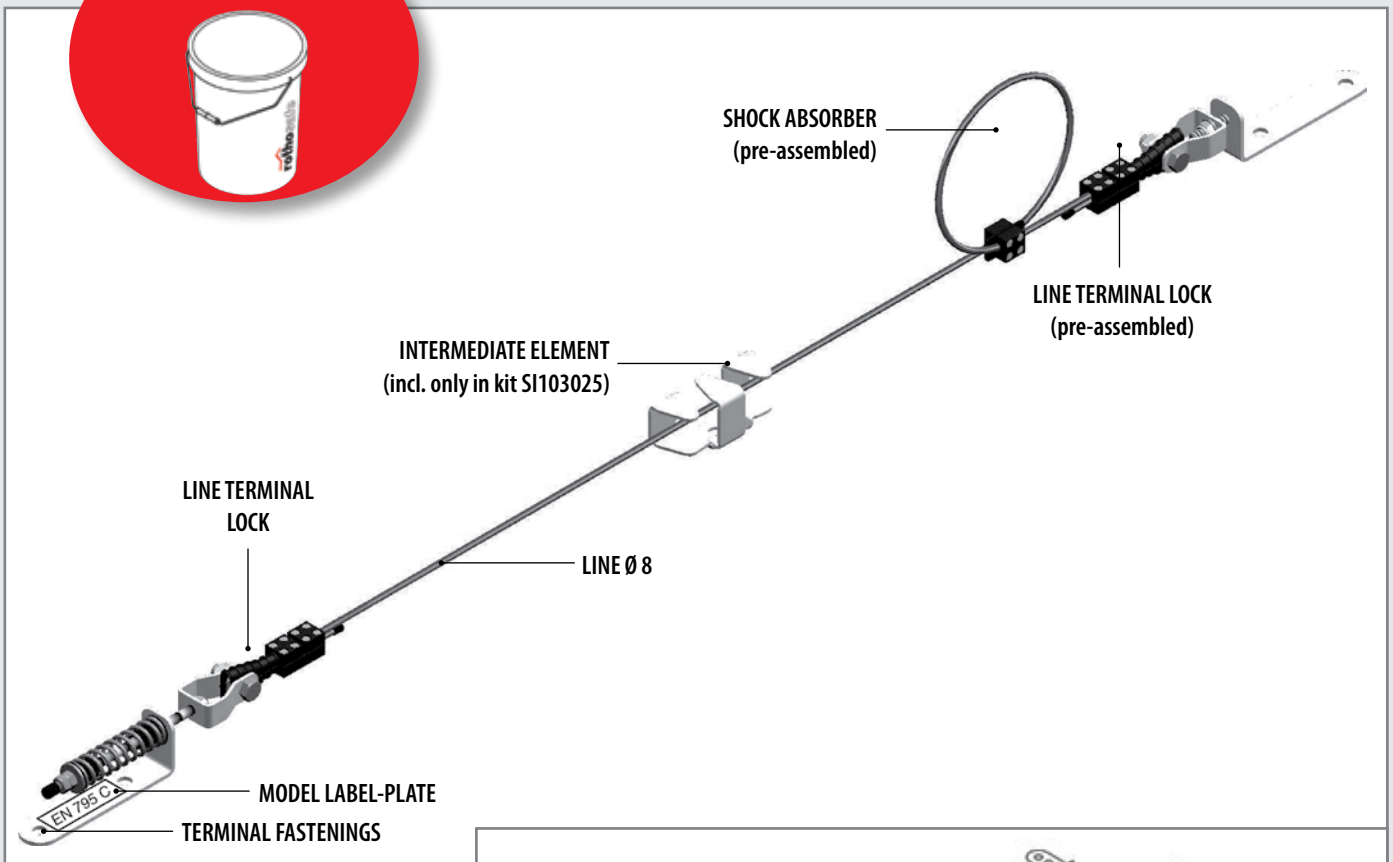
description

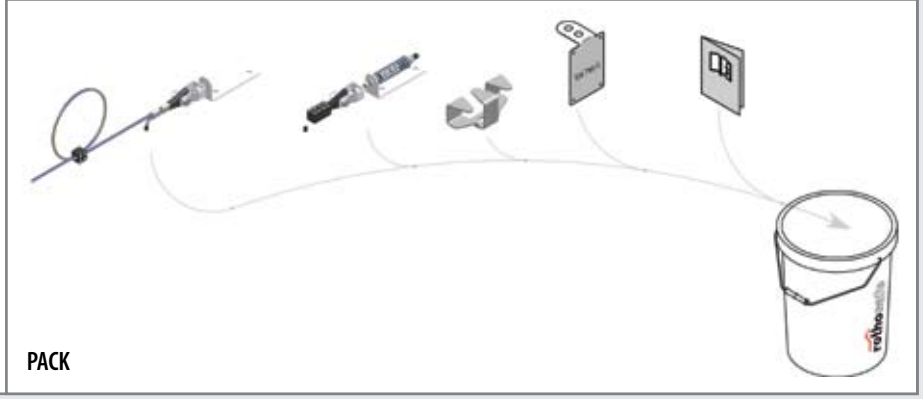
- fastenings for installation on SUPPORT, FALZ, SANDWICH or VARIOUS
- suitable for concrete, metal or wood substructures
- the system is pre-assembled to prevent assembly errors
- quick and simple final assembly
- equipped with a shock absorber (built-in absorber)
- line tension indicator

technical data

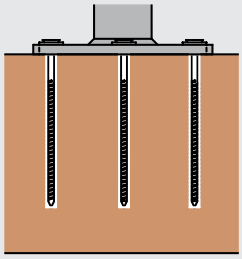
- terminal fastenings each equipped with 2 holes for M16
- passing intermediate element with 1 hole for M16
- max. load in final anchorages 10 kN
- quick passing intermediates: 10 m none, 15 m none, 25 m 1 item
- breaking load min. 37 kN

ALL IN





PACK



FASTENINGS SET FOR WOODEN JOISTS

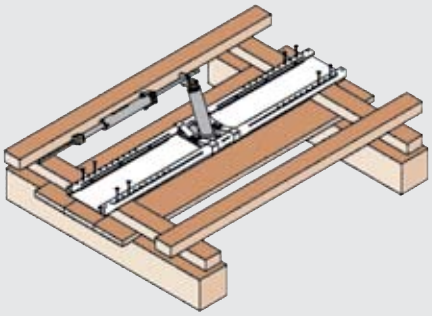
	code	min. thickness	items/pack
CYT	SI100220	16/16 cm	1

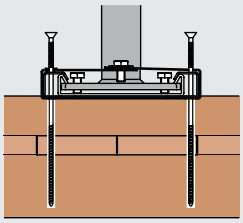
technical data

- minimum penetration depth into load-bearing wood: 110 mm

set contents

- 8 HBS wood screws for construction work, 8 x 140 mm
- 4 washers





GUIDE FOR FASTENINGS ON WOODEN JOISTS

	code	min. thickness	items/pack
CYW	SI100240	8/10 cm	1

description

- in combination with standard and slanted support
- fastening even on insulation
- min. penetrations depth into static load-bearing structure: min. 90 mm
- if necessary, order other screw lengths separately

set contents

- fastening guide for sloping roof (1250 x 200 x 32 mm)
- 8 HBS fastening screws 8 x 220 mm

HBS WOOD SCREWS

FLAT HEADED WITH SELF-BORING TIP, WIDENERS, THREAD-END MILLER, WHITE-GALV.

	code	Ø x length	insert	items/pack
CC	HBS880	8 x 80	TX40	100
TU	HBS8100	8 x 100	TX40	100
038	HBS8120	8 x 120	TX40	100
039	HBS8140	8 x 140	TX40	100
040	HBS8160	8 x 160	TX40	100
041	HBS8180	8 x 180	TX40	100
042	HBS8200	8 x 200	TX40	100
043	HBS8220	8 x 220	TX40	100
044	HBS8240	8 x 240	TX40	100
045	HBS8260	8 x 260	TX40	100
046	HBS8280	8 x 280	TX40	100
047	HBS8300	8 x 300	TX40	100
048	HBS8320	8 x 320	TX40	100
049	HBS8340	8 x 340	TX40	100
050	HBS8360	8 x 360	TX40	100
051	HBS8380	8 x 380	TX40	100
052	HBS8400	8 x 400	TX40	100

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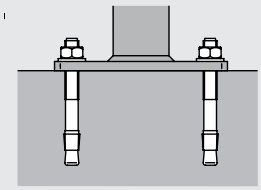
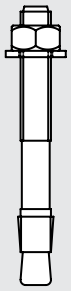




FASTENINGS FOR CONCRETE – HEAVY ANCHOR

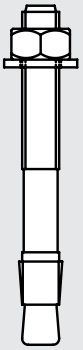
	code	Ø x length	items/pack
CYN	SI100211	12 x 118	1

technical data

• for textured and untextured concrete (min. C 20/25)

CE European Technical Approval Option 1

Feuerwiderstandsklasse F120



FASTENINGS FOR CONCRETE – HEAVY ANCHOR

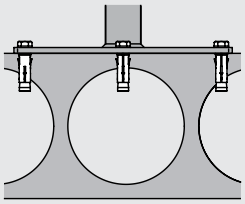
	code	Ø x length	items/pack
DUT	SI101330	16 x 138	1

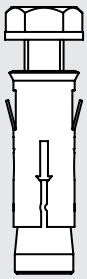
technical data

• for textured and untextured concrete (min. C 20/25)

CE European Technical Approval Option 1

Feuerwiderstandsklasse F120





FASTENING SET FOR FLOOR SLABS AND HOLLOW PANELS

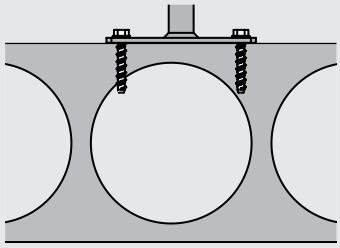
	code	Ø x length	items/pack
CYS	SI100214	10 x 60	1

technical data

• min. concrete quality C 50–60 B4
• hollow panel cross-section: min. concrete thickness 30 mm

set contents

• 8 nogs for hollow floor slab FHY M10
• 8 hexagonal screws DIN933 M10 x 60, 8 washers M10
• 8 washers M10



FASTENING SET FOR UNIVERSAL QUADRAT

	code	items/pack
CZB	SI100320	1

description

• for concrete and hollow concrete floor slabs (min. C20/25)

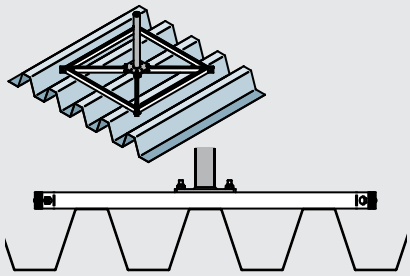
set contents

• 4 screw anchors HUS-H 10,5 x 55/-/5

SKS TIGHTENABLE ANCHOR

FLAT HEAD, T-DRIVE, WHITE GALVANIZED

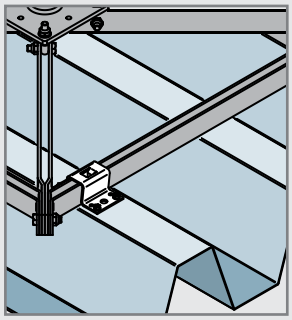
	code	Ø x length	hole	TX	connection thickness	items/pack
644	SKS7560	7,5 x 60	6	TX40	10	100
645	SKS7580	7,5 x 80	6	TX40	30	100
646	SKS75100	7,5 x 100	6	TX40	50	50
647	SKS75120	7,5 x 120	6	TX40	60	50
648	SKS75140	7,5 x 140	6	TX40	80	50
649	SKS75160	7,5 x 160	6	TX40	100	50

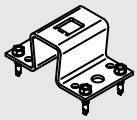


FRAME FOR LOAD-BEARING PLATE-METAL

	code	size	plate-metal thickness	items/pack
CYX	SI100250	840x840x40	0,6	1

ATTENTION: order together with the corresponding fastening set (SI100251 or SI100252)





FASTENING SET
FOR FRAME SI100250

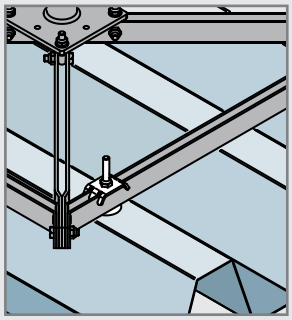
	code	plate-metal thickness	items/pack
CYY	SI100251	0,6	1

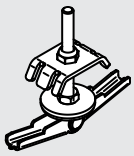
description

- for loadbearing roofing made of trapezoidal plate-metal
- with groove width greater than 60 mm

set contents

- 4 fastening stirrups, each complete with 4 self-boring screws





FASTENING SET
FOR FRAME SI100250

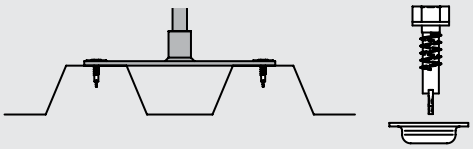
	code	plate-metal thickness	items/pack
CYZ	SI100252	0,6	1

description

- for loadbearing roofing made of trapezoidal plate-metal
- with groove width greater than 60 mm
- minimum free space below the groove: 115 mm
- hole diameter: Ø 28 mm (steel plate thickness: min 0.6 mm)

set contents

- 4 special hinged nogs



FASTENING SET FOR QUADRAT 2
FOR TRAPEZOIDAL PLATE-METAL

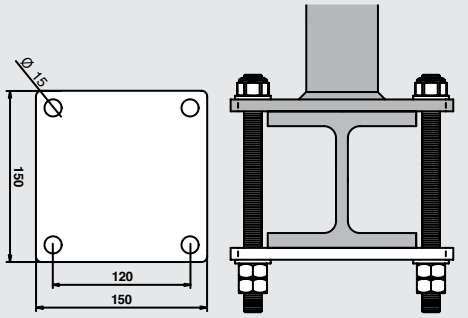
	code	items/pack
DUU	SI100341	1

description

- for steel plate thicknesses: 0.75 – 1.5 mm

set contents

- 12 x self-boring screws SXL2-6,3x25
- 12 x self-centering washers



COUNTERPLATE FASTENING SET

	code	size	items/pack
CYU	SI100232	150 x 150 x 8	1

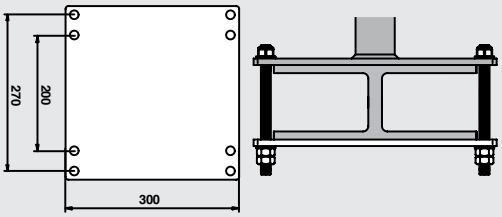
description

- M12 threaded rods must be ordered separately

set contents

- 1 plate
- 4 self-locking hexagonal nuts M12
- 8 hexagonal nuts M12
- 8 washers M12

COUNTERPLATE FASTENING SET



	code	size	items/pack
CYV	SI100233	300 x 300 x 8	1

description

- maximum width of the piece to be locked in place: 185 mm or 255 mm
- M12 threaded rods must be ordered separately

set contents

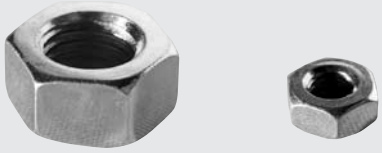
- 1 plate
- 4 self-locking hexagonal nuts M12
- 8 hexagonal nuts M12
- 8 washersM12

WASHER FOR IRON

	code	Ø	size	items/pack
365	ULS13242	M12	13 x 24 x 2,5	500
367	ULS17303	M16	17 x 30 x 3	500

steel S235 DIN 125

HEXAGONAL NUT



	code	Ø	height	items/pack
247	MUT93412	M12	9	100
249	MUT93416	M16	12	200

steel 8 DIN 934

SELF-LOCKING HEXAGONAL NUT

	code	Ø	height	items/pack
DUV	MUT98512	M12	9	1
DUW	MUT98516	M16	12	1

steel 8 DIN 985

THREADED ROD

($F_{U,K}$=800N/MM^2)

	code	Ø	length	items/pack
DUK	MGS11288	M12	1000	1
DUM	MGS11688	M16	1000	1

steel 8.8 DIN 975

CE-MARKED VINYLESTER RESIN FOR CONCRETE,
STYRENE-FREE, HIGH PERFORMANCE, EXTERNALLY-MIXED CARTRIDGES

	code	nr. of mixers	contents	items/pack
714	FE400055	2	400 ml	1
869	FE400056	2	300 ml	1

description:

- non flammable
- excellent vibration resistance
- suitable for anchoring on any type of support base; wood, solid-brick and hollow-brick masonry, concrete, reinforced concrete, stone. The technical data is valid for holes cleaned with a brush and compressed air. Due to the well-known range of differences found, always check the holding ability of the base material.

technical data:

- shrinkage after hardening 0.05-0.07%
- with ETA certification on untextured concrete

ROPE TIGHTENER
FOR LIFE LINE

	code	items/pack
DUX	SI100891	1

technical data:

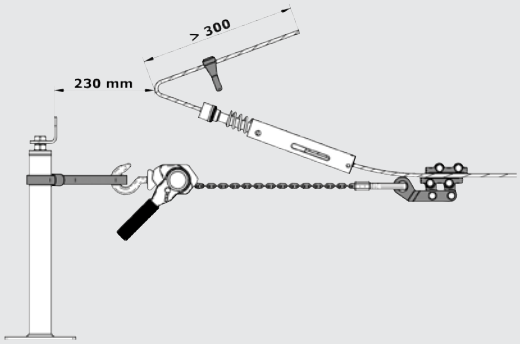
- max length 3 m, max. load 250 kg

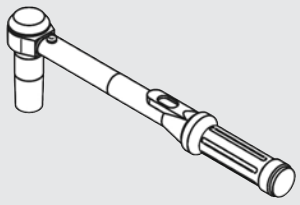
QUICK CLAMP
FOR LIFE LINE

	code	items/pack
DUY	SI100892	1

technical data:

- for line Ø 3-8 mm





DYNAMOMETER KEY

	code	items/pack
DUZ	SI100893	1

technical data

- utilisation range 10-100 Nm
- tolerance 3 %

HOOKABLE STEP TREAD

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	material	size	degrees	colour	items/pack
DVA	AS5000	alu – natural	180x160	0-60		1
DVB	AS5005	brick red	180x160	0-60		1
DVC	AS5010	brown	180x160	0-60		1
DVD	AS5030	alu – natural	460x250	0-60		1
DVE	AS5035	brick red	460x250	0-60		1
DVF	AS5040	brown	460x250	0-60		1
DVG	AS5060	alu – natural	800x250	0-60		1
DVH	AS5065	brick red	800x250	0-60		1
DVJ	AS5070	brown	800x250	0-60		1

description

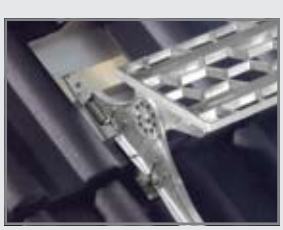
- cast aluminium step
- stainless steel connections
- hookable onto laths
- non-skid tread
- extremely weather-resistant
- supports with wide rubber edges to protect tiles

EN 516

Fachausschuss Bauliche Einrichtungen Prüf- und Zertifizierungsstelle im BG-PRÜFZERT

BG-PRÜFZERT BAU Sicherheit geprüft tested safety

CE



TIGHTENABLE STEP TREAD

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	material	size	degrees	colour	items/pack
DVK	AS5015	alu – natural	180x160	0-60		1
DVL	AS5020	brick red	180x160	0-60		1
DVM	AS5025	brown	180x160	0-60		1
DVN	AS5045	alu – natural	460x250	0-60		1
DVP	AS5050	brick red	460x250	0-60		1
DVR	AS5055	brown	460x250	0-60		1
DVS	AS5075	alu – natural	800x250	0-60		1
DVT	AS5080	brick red	800x250	0-60		1
DVU	AS5085	brown	800x250	0-60		1

description

- cast aluminium step
- stainless steel connections
- hookable onto laths
- non-skid tread
- extremely weather-resistant
- supports with wide rubber edges to protect tiles

EN 516

Fachausschuss Bauliche Einrichtungen Prüf- und Zertifizierungsstelle im BG-PRÜFZERT

BG-PRÜFZERT BAU Sicherheit geprüft tested safety

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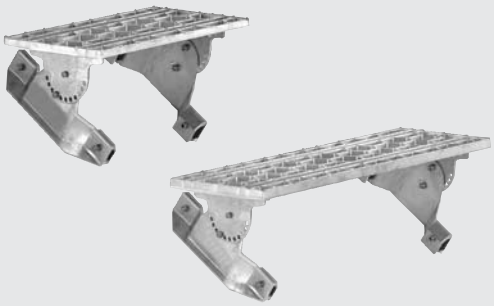

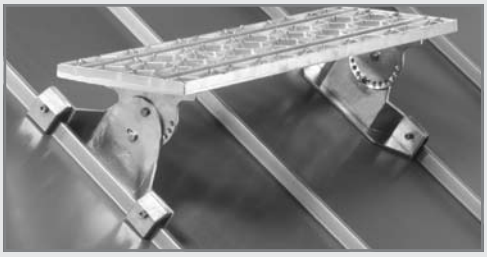

STEP TREAD FOR SEAMED ROOF

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	material	size	degrees	colour	items/pack
DVV	AS5090	alu - natural	460x250	0-55		1
DVW	AS5095	alu - natural	800x250	0-55		1

technical data

- cast aluminium step
- stainless steel connections
- fastened to seam fold by clamping
- non-skid tread
- extremely weather resistant
- adjustable seam span:
  AS5090 21-57 cm
  AS5095 49-90 cm

EN 516

Fachausschuss Bauliche Einrichtungen Prüf- und Zertifizierungsstelle im BG-PRÜFZERT

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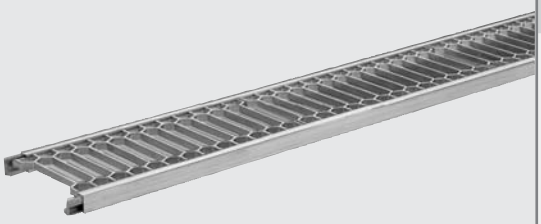

WALKWAY

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	material	size	colour	items/pack
DVX	AS5100	alu – natural	1500x250		1
DVY	AS5105	brick red	1500x250		1
DVZ	AS5110	brown	1500x250		1

description

- cast aluminium flat unit
- stainless steel connections
- non-skid
- extremely weather-resistant
- units can be linked to each other to extend for an unlimited length

technical data

- each 150 x 25 cm flat unit requires 2 supports that must be ordered separately
- max. distance between supports 1.2 m

EN 516

Fachausschuss Bauliche Einrichtungen Prüf- und Zertifizierungsstelle im BG-PRÜFZERT

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CE

SUPPORT FOR HOOKABLE WALKWAY

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	material	degrees	colour	items/pack
DWA	AS5115	alu – natural	0-60		1
DWB	AS5120	brick red	0-60		1
DWC	AS5125	brown	0-60		1

description

- cast aluminium support
- stainless steel connections
- hookable onto laths
- extremely weather resistant
- supports with wide rubber edgings for tile protection

description

- each 150 x 25 cm flat unit requires 2 supports
- max. distance between supports 1.2 m

EN 516

Fachausschuss Bauliche Einrichtungen Prüf- und Zertifizierungsstelle im BG-PRÜFZERT

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SCREW-CLAMPED SUPPORT FOR WALKWAY

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	material	degrees	colour	items/pack
DWD	AS5130	alu – natural	0-60		1
DWE	AS5135	Brick red	0-60		1
DWF	AS5140	brown	0-60		1

description

- cast aluminium support
- stainless steel connections
- screw-clamped onto laths
- extremely weather resistant
- supports with wide rubber edgings for tile protection

technical data

- each 150 x 25 cm flat unit requires 2 supports
- max. distance between supports 1.2 m

EN 516

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SUPPORT FOR WALKWAY FOR SEAMED ROOF

PREFABRICATED ACCESSORIES FOR ROOFING – ACCESS INSTALLATIONS

	code	description	degrees	colour	items/pack
DWG	AS5145	alu - natural	0-55		1

description

- cast aluminium support
- stainless steel connections
- clamped onto seam fold
- extremely weather-resistant

description

- each 150 x 25 cm flat unit requires 2 supports
- max. distance between supports 1.2 m

EN 516

Fachausschuss Bauliche Einrichtungen Prüf- und Zertifizierungsstelle im BG-PRÜFZERT

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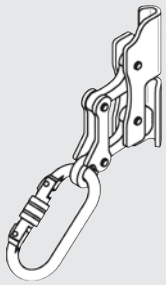
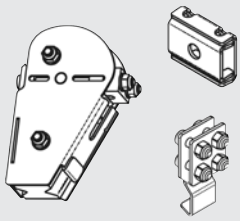
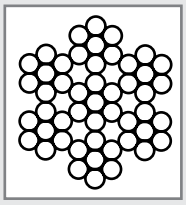
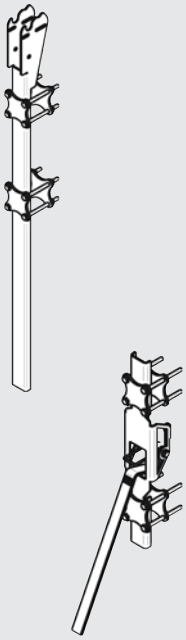
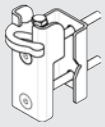
VERTICAL
VERTICAL ANCHOR LINE SAFETY SYSTEM











	code	items/pack
DWH	SI101640	1

description
- vertical sliding device with bush
- can be installed and disassembled at any point on the line

DWJ	SI101650	1

description
- terminal closing with built-in shock absorbers
- fastened to the ladder with a further safety fastening on the building

DWK	SI100840	1

description
- stainless steel line Ø 8, 49 filaments, breaking load 37 kN

DWL	SI101700	1

description
- upper terminal close fastening
- centre distance between rungs 250-730 mm
- max. rung size 65 x 45 mm

DWM	SI101710	1

description
- upper terminal close fastening
- centre distance between rungs 250-340 mm
- max. rung size 65 x 45 mm
- pre-load the line with a tensioning spring to approx. 0,64 kN

DWN	SI101720	1

description
- intermediate line support
- for fastening the line for stretches longer than 5 m
- max. rung size 45 x 58 mm

The VERTICAL safety system is used to tie workers with personal protective equipment so that they can safety climb up and down on rung ladders (working at height).
The system consists of an 8 mm stainless steel cable, supported by an end fastening with a built-in fall shock absorber. During its use the user is connected to the system by a harness and a sliding device.
In order to reduce the jolt effect on the user as much as possible, the vertical safety line is equipped with modern shock absorbers.

2. PPE – PERSONAL PROTECTIVE DEVICES

2. PPE - PERSONAL PROTECTIVE EQUIPMENT

• FALLPROTECTION

Harnesses
Where there is any danger of falling, the user must be equipped, in particular, with a fall arrester system and a fall arrest harness. The latter are equipped with sternum and back attachment points connected to the fall arrester system.

Helmets
A helmet must assure protection from knocks and falling objects, but must not be uncomfortable. These helmets for working at heights have a strong chin strap to reduce the risk of losing the helmet due to knocks during a fall.

Restraint and work positioning
The retainer and work positioning lanyards are used with a work positioning harness. They are designed to restrain motion or to work in position with hands left free.
These lanyards can be adjustable or non-adjustable. The polyamide cord used, of a semistatic or dynamic type, is resistant to abrasion and wear.
Where fall risks are present, the restrainer and work positioning lanyards must be supplemented by an energy absorber.

Guided-type fall arrester
The use of a guided fall arrester is the least constraining solution for a fall arrester system: it slides without need for intervention on the user's part, so he hardly notices it.
It can be used in an assured progression system on structures or self-assured on the safety line for anchor-line work.
The guided fall arrester locks in the event of a fall, slip or uncontrolled descent. It works on a vertical or sloping line.

Descenders – controlled descent
For work at heights or rescues, access from above is preferable because it takes advantage of gravity.
The descenders are designed to regulate braking and control descent down a fixed cable. They also make it possible for the user to position himself at a given point of the cable to work there. Some descenders also act as assurers to assure first progress by climbing techniques.

Progress stops
These stops with cable locks are designed essentially for reascending a cable, but can also be used for repositioning.

Energy-absorbing lanyards
Energy-absorbing lanyards are part of the fall arrester system. They dissipate the fall energy by the tearing of special seams. For better work-zone mobility, the energy-absorbing lanyards are available in various lengths.
It is necessary to check systematically that the vertical clearance obtained is compatible with the length of the lanyard.

Retractable automatic recall devices
These devices assure safety and freedom of movement to make work easier. The fast-activation lock mechanism reduces the fall distance to a few centimeters, keeping the arrest forces to a minimum. The device also reduces the risk of stumbling.

Connectors – essential safety components
The connectors vary in terms of shape, size and locking system. Their opening capacity determines the kind of supports they can be used on.
The aluminium spring catches are made of an alloy that provides an exceptional weight/strength ratio. They are used on harnesses, on lanyard ends or for temporary anchors. The steel connectors are heavier, and are used chiefly on anchors.

Flexible anchor - slings
The anchor tapes are designed for temporarily anchoring to a load-bearing structure, or can be used for connections between the harness and the anchor.

Temporary life line
The temporary life line is anchored to two specific anchors on the structure using spring catches. To assure workers' safety on installation or maintenance jobs on structures or roofs.

PPE Kits
Combination kits to meet various job requirements

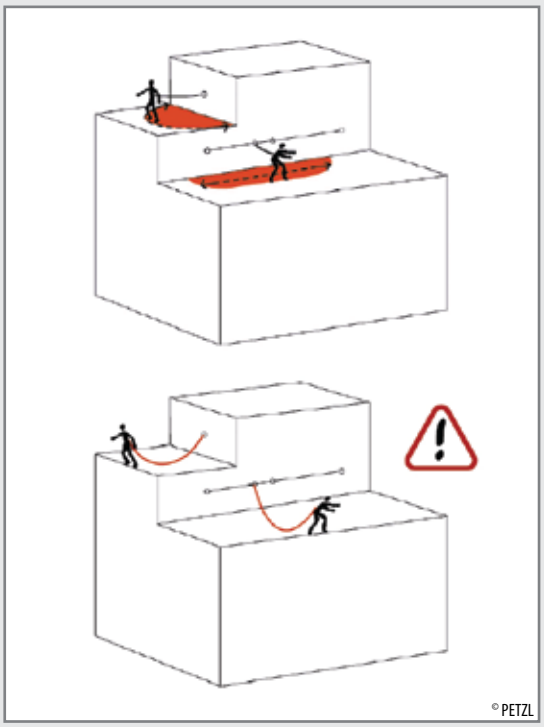
• HEARING, EYESIGHT, RESPIRITORY SYSTEM AND HAND PROTECTION

• FIRST AID

General principles for working at heights

• RESTRAINT

Technique used to prevent a worker from reaching an area where there is a danger of falling (the leash principle): lanyard + work positioning harness (the length of the lanyard must be such that it prevents the worker from entering the fall zone).

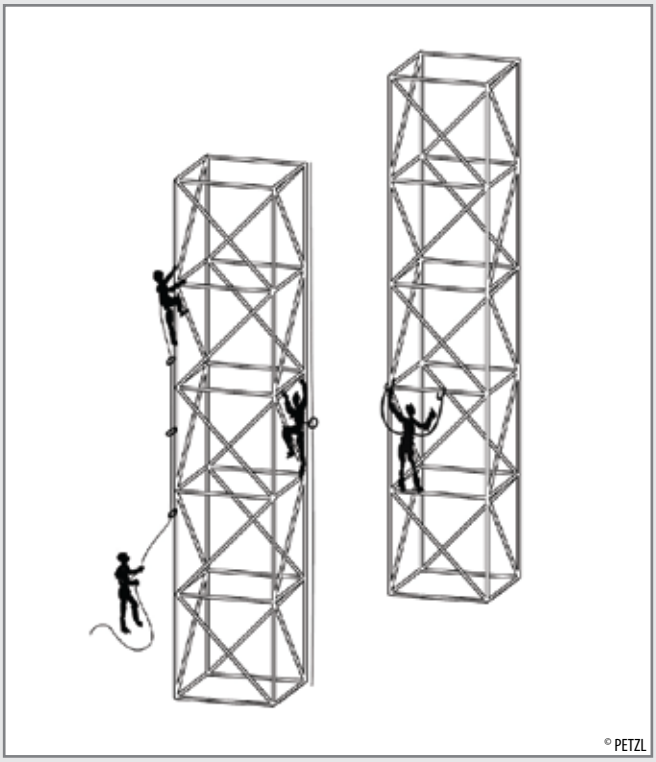


• FALL ARREST SYSTEM

Preventing the risks linked to falls

The purpose of the fall arrest system is to:

- ➡ reduce the distance necessary to arrest the fall
- ➡ absorb the fall energy to limit the arrest force transmitted to the human body
- ➡ keep the faller in an appropriate position to reduce the inert suspension effects.



1. Impact against an obstacle or the ground

It is necessary to foresee the required vertical clearance.
This distance is the free space necessary beneath the faller to prevent contact with any obstacle during the fall:

- ➡ the lanyards or energy absorbers must not be longer than 2 m
- ➡ the drop must always be kept as small as possible
- ➡ the vertical clearance calculation varies depending on the system used: lanyard, energy absorber, guided fall arrester, retractable fall arrester…

2. Excessive arrest force

During a fall, the operator must never be subject to an arrest force greater than 6 kN. There are two possibilities:

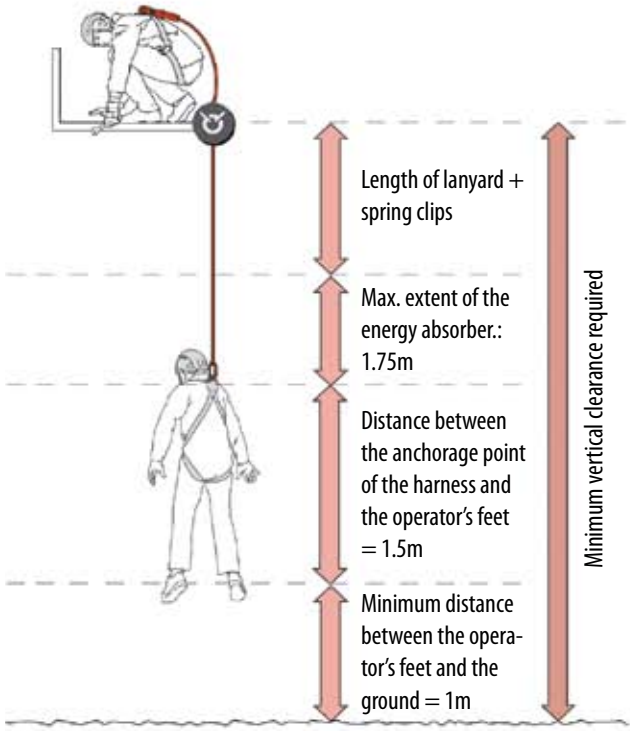
- ➡ make sure that the lanyards always remain secured to the anchorage point, above head level, so as to minimize the drop distance and the arrest forces produced by the fall
- ➡ if it is not possible to limit the fall, it is necessary in this case to foresee an arrest force shock-absorber. The most frequently used energy-absorbing PPEs (personal protective equipment) are: energy absorbers and dynamic cord systems.

3. Inert suspension: damaging effects on health

In the event of a fall, the fall arrester system is designed to minimize the effects of gravity on the human body (by reducing the arrest force, preventing or slowing impact against an obstacle). Despite this, the consequences of a fall are often serious. Inert suspension in any harness can have serious physical consequences. These problems do not arise in the case of prolonged suspension of a person who is still conscious, and will constantly shift his weight from one point of the harness to another. Conclusion: teams must be trained, drilled and autonomously capable of aiding a worker who has lost consciousness or is incapable of helping himself.

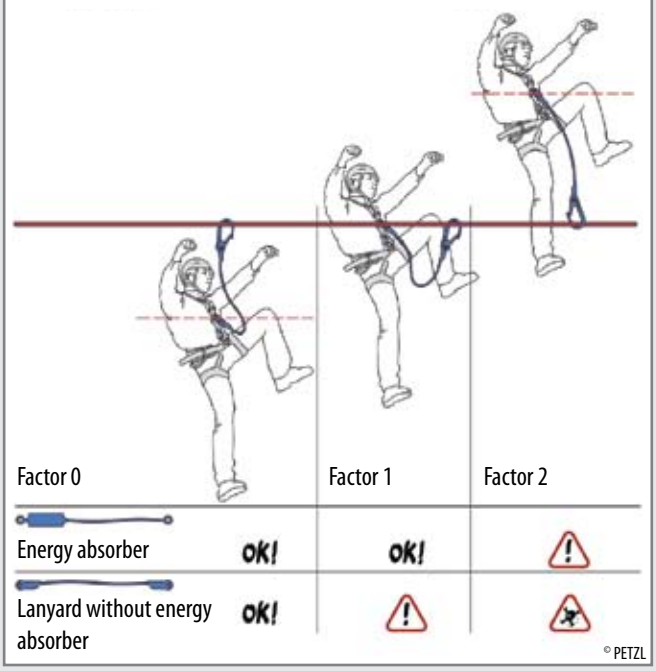
Vertical clearance

minimum space required:



Fall factor

The fall factor expresses the proportionate degree of gravity in a fall. It consists of the ratio between the length of the fall and the amount of rope available to distribute the arrest force of the fall. It is calculated by means of the following equation: fall factor = length of fall / amount of rope or cord in the system.



• WORK POSITIONING

Work technique that enables an operator to work supported by his devices, with free hands:

- ➡ if the risk of falling into the void is zero: positioning harness and positioning lanyard
- ➡ if there is a risk of falling (uncovered roof, roof not protected by collection protection devices, steep slope, etc. . .): positioning harness and fall arrester, positioning lanyard, fall arrest system.

General information

Where it is not possible to eliminate the risks of falling from a height by the use of a collective protection system, it is necessary to intervene by choosing and using personal protective equipment (PPE), which can be of the restraint, positioning, recovery or fall arrest type. An anti-fall system consists of a harness, an intermediate element and an anchor. It can only be used if there is an accessible and safe anchorage point in the vicinity of the place of work.
Personal protective equipment constitute anti-fall systems designed to save the user's life (category 3 – designed to protect from risks of death or serous injury and permanent disablement).

The components of a personal fall arrest protective system

Anchorage device:
- point to which the fall arrest protection system is reliably connected (anchorage tape, tripod, life line, etc.)
- It must be located at a sufficient height to prevent, in the event of a fall, the impact of the operator against the ground or a structure beneath the work level

Harness:
- In the event of a fall, it must be able to restrain the person and guarantee an arrest without causing injuries
- It must be chosen on the basis of the type of work to be carried out and the place of work

Connection device:
- Element connecting the fall arrest harness to the anchorage point or to the connector (fall arrest lanyard, retractable device etc.)
- Restraint: system that prevents workers from reaching a fall hazard zone
- Fall arrest: system that enables workers to work in fall hazard areas and be protected in the event of a fall

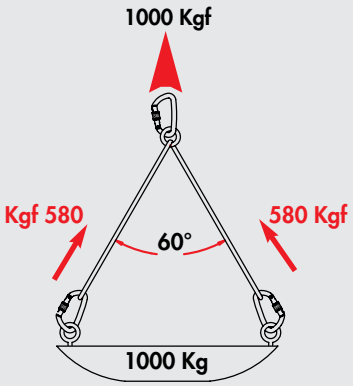
EQUIPMENT CARE AND MAINTENANCE

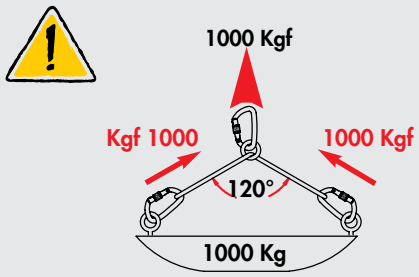
The proper care and maintenance of the equipment is essential to assure the user's safety. Cuts, abrasions, burns and other defects negatively affect safety. Damage to equipment can prevent it from working properly and cause accidents. Accidents can be avoided thanks to thorough preventive inspections.

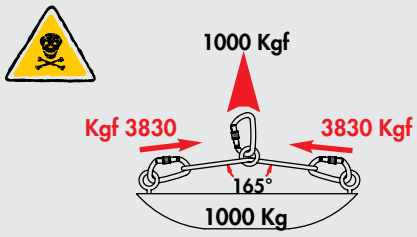
Fabric devices:
- cuts: a 2 mm edge cut reduces the strength of the fabric by up to 40%
- abrasions: an abrasion on the textile components acts exactly like a cut when the threads in the fabric are torn
- burns: can be caused by a heat source or by contact with chemical or corrosive substances or materials. In particular, nylon is usually damaged by contact with acids and polyester by contact with alkaline substances.
- deterioration due to ultra-violet rays: sunshine and welding can damage fabric components
- stitching: make sure there are no loose, cut, missing or worn threads

Mechanical devices:
- signs of wear: due to frequent use
- loosened parts
- deformation: high loads – incorrect use
- corrosion and oxidation: kept in an unsuitable place

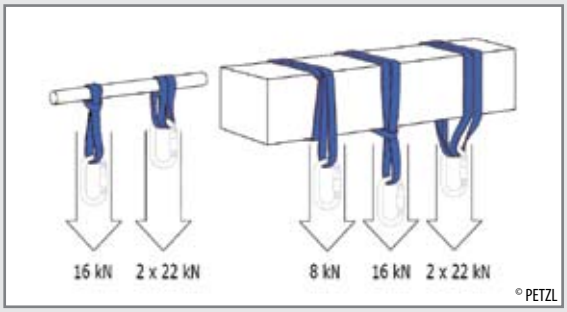
Load values:
The greater the angle, the higher the loads







BREAKING LOAD OF THE ANCHORAGE DEVICE IN RELATION TO THE DIFFERENT TYPES OF INSTALLATION



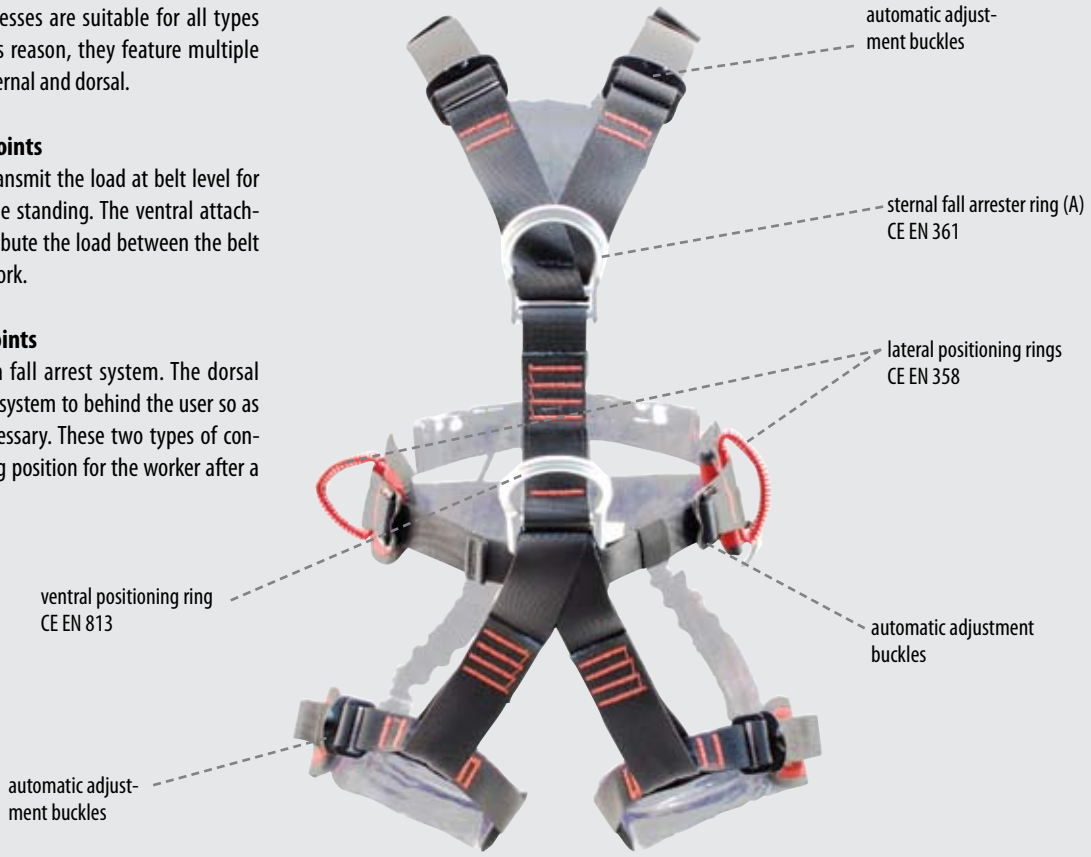
Work positioning and fall arrest harness

Work positioning and fall arrest haresses are suitable for all types of elevation work situations. For this reason, they feature multiple attachment points: ventral, lateral, sternal and dorsal.

Ventral and lateral attachment points
The two lateral attachment points transmit the load at belt level for working comfortably supported while standing. The ventral attachment point makes it possible to distribute the load between the belt and the thigh pieces for suspended work.

Sternal and dorsal attachment points
These make it possible to connect a fall arrest system. The dorsal attachment point is used to shift the system to behind the user so as to free up the work space when necessary. These two types of connection assure a stable and reassuring position for the worker after a fall from a height.

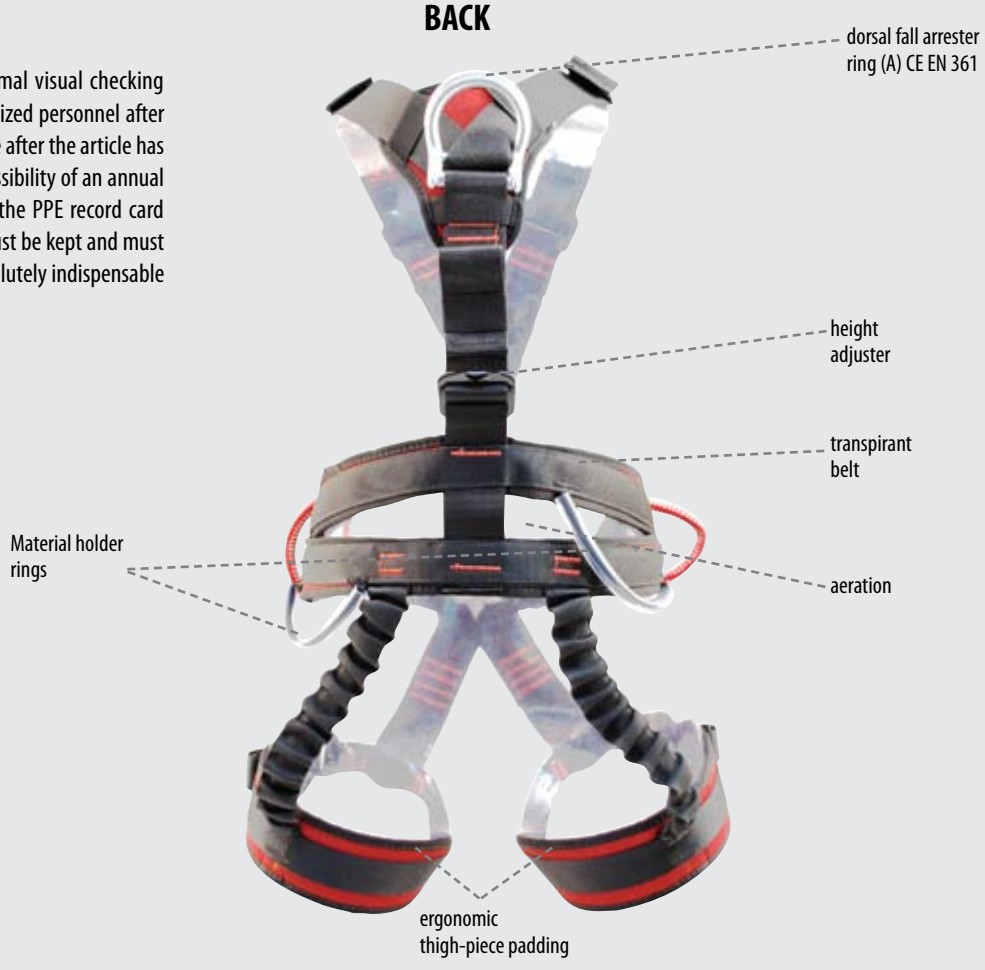
FRONT



CHECKING AND OVERHAULING

Every PPE must, in addition to undergoing normal visual checking before and after use, must be checked by specialized personnel after a maximum of 12 months. This must also be done after the article has been subject to stress. rothosafe provides the possibility of an annual overhaul. This control check is documented on the PPE record card attached to each product. The PPE record card must be kept and must accompany the PPE. For the use of PPEs, it is absolutely indispensable to follow the user instructions.

BACK



MASTER
WORK POSITIONING AND FALL ARREST HARNESS

	code	size	weight	items/pack
DWP	AS3000	m/l	1130 g	1
DWR	AS3001	xl	1180 g	1

description
- ideal for apweight work
- dorsal and sternal fall arrester ring
- transpirant waistband, with above-standard aeration
- adjustable-height dorsal attachment point
- automatic adjustment buckles, self-locking
- built-in tape to fasten the ventral lock
- ergonomic thigh-piece padding
- safe and easy to wear
- ergonomic and practical
- very light

technical data
- n° 5 attachment points
- n° 1 ventral positioning ring and n° 2 lateral rings
- n° 2 PVC-coated material holder rings

CE EN361 CE EN358 CE EN813

NAVAHO BOD FAST
WORK POSITIONING AND FALL ARREST HARNESS

	code	size	weight	items/pack
DWS	AS4005	m/l	1890 g	1
DWT	AS4006	xl	2000 g	1

description
- excellent compromise between suspension comfort and freedom of movement
- wide semi-stiff belt
- belt, thigh-pieces and harness-straps covered with transpirant padding
- high and low buckles in different colours to make it easier to put on the harness
- five attachment points
- adjustable-height dorsal attachment point
- directional ventral connector
- three material-holder rings with protective sheathing
- belts and straps equipped with self-locking buckles
- thigh-pieces equipped with automatic buckes for fast and easy opening and closing without losing the adjustment setting

CE EN361 CE EN358 CE EN813

STANDARD
FALL ARREST HARNESS

	code	size	weight	items/pack
DWU	AS3005	m/l	1280 g	1
DWV	AS3006	xl	1330 g	1

description

- suitable for working on sloping surfaces
- two fall-arrester attachment points (sternal and dorsal)
- sternal attachment point in two parts
- two material-holder rings

CE EN361 CE EN813

NEWTON FAST JAK
FALL ARREST HARNESS

	code	size	weight	items/pack
DWW	AS4010	m/l	960 g	1
DWX	AS4011	xl	1020 g	1

description

- simple and modular with jacket
- two attachment points (sternal and dorsal)
- sternal attachment point in two parts
- preformed jacket to make it easier to put on the harness
- thigh-pieces equipped with automatic buckes for fast and easy opening and closing without losing the adjustment setting
- two material-holder rings with protective sheathing

CE EN361

BASIC
FALL ARREST HARNESS

	code	size	weight	items/pack
DWY	AS3010	m/l	1050 g	1
DWZ	AS3011	xl	1100 g	1

description

- two fall-arrest attachment points (sternal and dorsal)
- sternal attachment point in two parts
- buckles not removable from closing devices
- 4 closing devices to fit the harness to the body
- two material-holder rings

CE EN361

SIMPLE
FALL ARREST HARNESS

	code	size	weight	items/pack
CZT	AS2005	one fits all	600 g	1

description

- 2 attachment points (sternal and dorsal)
- fast-opening buckles and adjustable thigh-pieces
- blue textile tape with black stripe: woven polyamide material, width: 45 mm
- dorsal ring material: stainless steel
- fast-opening buckle materail: galvanized steel

CE EN361

HARNESS CONNECTOR

	code	length	width	opening	weight	items/pack
DXA	AS3065	87	67	11	152 g	1

technical data

- breaking load along the greater axis with lever closed 50 kN
- breaking load along the smaller axis with lever closed 15 kN

CE EN362-Q

internal

PROTECTOR
HELMET

	code	colour	size	adjustment range	weight	items/pack
DXB	AS3015	white	S/M	520 - 590	360 g	1
DXC	AS3016	white	L/XL	580 - 630	380 g	1

description

for elevation work and industries

- choice of 2 sizes for a better fit
- high-strength polycarbonate dome
- dome provided with slots and hooks to mount protection gear or lamps
- internal adjustment-wheel for fast and easy headband adjustment
- extremely light
- removable padding

technical data

- chinstrap designed to open in case of 15 to 25 kg impact

CE EN397

adjustment wheel

VERTEX ST
HELMET

	code	colour	size	adjustment range	weight	items/pack
DXD	AS4015	white	S/XL	530 - 630	465 g	1
DXE	AS4016	red	S/XL	530 - 630	465 g	1

description

- for elevation work and industries
- high-strength polycarbonate dome
- dome provided with slots and hooks to mount protection gear or lamps
- internal adjustment-wheel for fast and easy headband adjustment
- padded headband for greater comfort– easy to clean
- headband height can be adjusted and it can be folded inside the helmet for correct storage
- textile straps

technical data

- chinstrap designed to open in case of 15 to 25 kg impact
- meets all the optional extended requirements of CE EN 397:
  lateral deformation
  can be used at low temperatures -30°
  electrical insulation
  repels molten metals

CE EN397

RESTRAINT AND WORK-POSITIONING LANYART

	code	length	weight	Ø	items/pack
DXF	AS3020	10 m	1487 g	11	1
DXG	AS3021	15 m	2000 g	11	1
DXH	AS3022	20 m	2237 g	11	1

description

- with two stitched eyelets
- two steel connectors with self-locking ring nut included

technical data

- can be used with the central and lateral rings of a CE EN 358 or CE EN 813 harness
- consists of a semistatic rope as per EN 1891A and aluminium alloy adjuster

CE EN358

NON-ADJUSTABLE ROPE WITH EYELETS

	code	length	weight	Ø	items/pack
DXJ	AS3045	1 m	135 g	11	1
DXK	AS3046	1,5 m	172 g	11	1
DXL	AS3047	2 m	210 g	11	1

description

- semi-static rope with two stitched eyelets

CE EN354 CE EN358 CE EN566 CE EN795 B

ADJUSTABLE POSITIONING ROPE

	code	length	weight	Ø	items/pack
DXM	AS2050	1,8 m	295 g	12	1

description

- adjustable polyamide rope

CE EN358

EYELETED ROPE WITH CONNECTOR

	code	length	weight	Ø	items/pack
DXN	AS3050	10 m	1260 g	11	1
DXP	AS3051	20 m	2010 g	11	1

description

- suitable for guided-type fall arresters: ASAP and ARRESTER
- with two stitched eyelets
- semi-static rope with steel connector and self-locking ring nut

CE EN795 B CE EN1891 CE EN362

ASAP
MOBILE FALL ARREST DEVICE FOR ROPE

	code	weight	Ø cable	items/pack
DXR	AS4020	427 g	10,5-13	1

description

- used on safety rope
- arrests a fall from a height, a slip on a sloping surface or an uncontrolled descent
- locks even if grabbed while falling
- works on vertical or sloping rope
- slides along the rope without manual intervention (upwards and downwards)
- easily installed and removed at any point on the rope
- can be completed with an AS4025 energy-absorbing lanyard
- equipped with an automatic spring catch

technical data

- for semi-static rope EN 1891 – code AS3050 (10 m) or AS3051 (20 m)

CE EN353-2

ASAP' SORBER
ENERGY ABSORBER

	code	length	weight	items/pack
DXS	AS4025	200	60 g	1

description

- designed to connect a guided fall arrester to the harness
- the fall energy is absorbed by ripping special seams

ARRESTER
MOBILE FALL ARRESTER AND POSITIONING DEVICE

	code	weight	Ø cable	items/pack
DXT	AS3025	385 g	10-12	1

description

- used on a safety rope
- arrests a fall from a height, a slip on a sloping surface or an uncontrolled descent
- slides along the rope without manual intervention (upwards and downwards)
- easily installed and removed at any point on the rope
- supplied with an automatic connector

technical data

- for semistatic rope EN 1891 – code AS3050 (10 m) or AS3051 (20 m)

MOBILE FALL ARRESTER ON ANCHOR LINE

	code	length	Ø	weight	items/pack
DAB	AS2010	10 m	12	1600 g	1
DAC	AS2015	20 m	12	2490 g	1

description

- anchor line with automatic fall arrest lock with lanyard
- hook with automatic double lever and spring catch
- used to protect the user from possible falls while ascending and descending
- used for work on sloping surfaces, such as roofs
- the guided automatic device is equipped with a fast-activation locking system that limits free fall to a few centimeters
- polyamide rope

technical data

- galvanized steel connector, opening: 18 mm
- chrome-plated steel automatic double lever hook, opening: 20 mm

I'D S
SELF-BRAKING DESCENDER WITH ANTI-PANIC FUNCTION

	code	weight	Ø cable	items/pack
DXU	AS4030	530 g	10-11,5	1

description

- designed for roped work: equipped with an opening clicker on the mobile flange to make it impossible to lose the device,
- multifunction handle which allows the user, depending on the situation, to:
  - release the rope and control the descent with hand on the free end,
  - move more quickly on a sloping or horizontal surface (thanks to the button on the handle),
  - lock the rope in place for work positioning without a stop key.
- the anti-panic function activates if the user pulls the handle too hard: the cam wheel is released so as to brake then automatically arrest the descent.
- anti-error rope stop to reduce the risk of accidents due to incorrect positioning of the rope. The shape of the rope stop is designed to let the rope slide more easily when reascending.
- cam wheel for easier recovery of excess rope. Also makes it possible to make a raising system reversible and to carry out brief reascents on the rope

CE EN341 A

The new button at the base of the handle facilitates horizontal movement and movements on sloping surfaces

The new slant of the anti-error rope-stop facilitates short reascents on the rope

ANTI-PANIC DESCENDER

	code	weight	Ø cable	items/pack
DXV	AS3100	385 g	10-13	1

description

- manually controlled descent device equipped with an automatic lock device, activated by releasing or pressing the lever
- allows descent at controlled speed and arrest with free hands

CE EN341 2A CE EN12841 C

HANDLED ROPE CLAMP

	code	weight	Ø cable	items/pack
DXW	AS3085	225 g	8-13	1

description

- for reascending a rope and possible recovery
- confortable, ergonomic hand grip
- lower holes to connect a lanyard and install a pedal with fast mesh
- upper holes to spring-catch the rope
- right-hand version

CE EN567

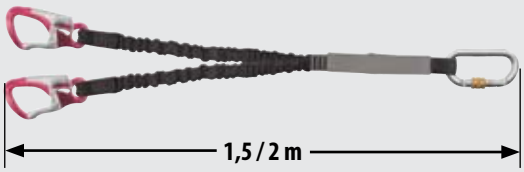
ENERGY ABSORBING LANYARD – SINGLE ARM

	code	length	weight	items/pack
DXX	AS3040	1,5 m	1200 g	1
DXY	AS3041	2 m	1350 g	1

description

- fall arrest lanyard with energy absorber
- equipped with elastic tape
- facilitates the user's movements thanks to its small dimensions
- the energy absorber reduces the force of impact
- equipped with two steel ring-nut connectors
- length inclusive of connectors

CE EN355



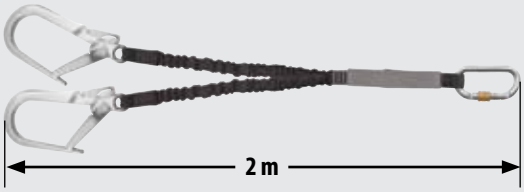
ENERGY ABSORBING LANYARD – DOUBLE ARM

	code	length	weight	items/pack
DXZ	AS3030	1,5 m	980 g	1
DYA	AS3031	2 m	1050 g	1

description

- fall arrest lanyard with energy absorber
- equipped with elastic tape
- facilitates the user's movements thanks to its small dimensions
- the energy absorber reduces the force of impact
- ring-nut connector for attachment to the harness
- equipped with two aluminium connectors with safety lever for attachment to the anchor
- length inclusive of connectors

CE EN355



ENERGY ABSORBING LANYARD FOR SCAFFOLDING – DOUBLE ARM

	code	length	weight	items/pack
DYB	AS3035	2 m	1520 g	1

description

- fall arrest lanyard with energy absorber
- equipped with elastic tape
- facilitates the user's movements thanks to its small dimensions
- the energy absorber reduces the force of impact
- ring-nut connector for attachment to the harness
- equipped with two wide-opening connectors with safety lever for attachment to the structure

CE EN355

ANCHOR FOR TUBULAR SCAFFOLDING

	code	length	weight	items/pack
DYC	AS2020	1,75 m	1220 g	1

description

- fall indicator
- anchor with steel clamp
- internal energy absorber: polyester fiber

technical data

- anchor certified for scaffolding pipes (from 48.3 to 50 mm)
- high-strength outer cover: Teflon-coated green polyamide strip, 45 mm

CE EN355 CE EN795 B

RETRACTABLE FALL ARREST DEVICE

	code	length	weight	items/pack
DYD	AS2060	2 m	860 g	1

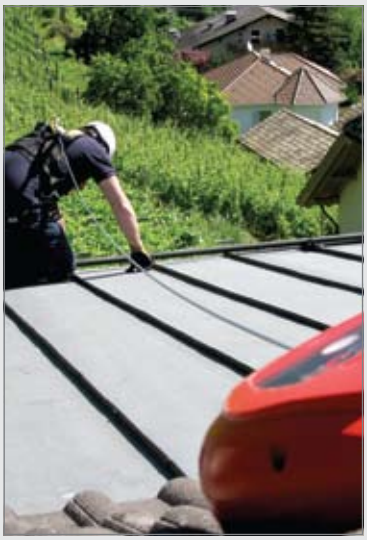
description

- light and compact
- with 2 steel connectors
- built-in fall indicator signals need for overhaul or repair
- built-in rotary ring

technical data

- 2 m textile strap
- annual "re-certification" by manufacturer not necessary

CE EN360



RETRACTABLE FALL ARREST DEVICE WITH STEEL CABLE

	code	length	weight	items/pack
DAL	AS2025	6,2 m	4,1 kg	1
DAM	AS2030	10 m	5,0 kg	1
DAN	AS2035	15 m	6,7 kg	1
DAP	AS2040	20 m	7,7 kg	1

description

- case: nylon with high impact resistance
- internal components: stainless steel and corrosion-proof aluminium
- easily-checked fall indicator
- conceived for the horizontal use or tilted.
- steel connector + 1m rope in steel included

technical data

- cable: galvanized steel, diam. 4.5 mm
- automatic connector: as per EN 362, breaking load: > 2000 daN, material: steel
- annual "re-certification" by manufacturer not necessary

CE EN360

unscrew open tighten

STEEL CONNECTOR WITH SCREW RING

	code	length	width	opening	weight	items/pack
DYE	AS3055	106,5	54	19	143 g	1

technical data

- breaking load along the greater axis with lever closed: 24 kN
- breaking load along the shorter axis with lever closed 10 kN
- breaking load along the greater axis with lever open 7 kN

CE EN362 B CE EN12275 KEY LOCK SYSTEM

unscrew open tighten

ALU CONNECTOR WITH SCREW RING

	code	length	width	opening	weight	items/pack
DYF	AS3056	106,5	54	19	65 g	1

technical data

- breaking load along the greater axis with lever closed: 22 kN
- breaking load along the shorter axis with lever closed 7 kN
- breaking load along the greater axis with lever open 7 kN

CE EN362 B CE EN12275 KEY LOCK SYSTEM

raise rotate open automatic lock

STEEL CONNECTOR WITH SELF-LOCKING RING

	code	length	width	opening	weight	items/pack
DYG	AS3057	114	76,5	26	240 g	1

technical data

- breaking load along the greater axis with lever closed: 50 kN
- breaking load along the shorter axis with lever closed 13 kN
- breaking load along the greater axis with lever open 20 kN

CE EN362 B CE EN12275 KEY LOCK SYSTEM

3 movements

raise rotate open automatic lock

ALU CONNECTOR WITH SELF-LOCKING RING

	code	length	width	opening	weight	items/pack
DYH	AS3058	114	76,5	26	95 g	1

technical data

- breaking load along the greater axis with lever closed: 30 kN
- breaking load along the shorter axis with lever closed 9 kN
- breaking load along the greater axis with lever open 9 kN

CE EN362 B CE EN12275 KEY LOCK SYSTEM

CONNECTOR FOR SCAFFOLDING

	code	length	width	opening	weight	items/pack
DYJ	AS3060	240	110	56	450 g	1

technical data

- breaking load along the greater axis with lever closed: 24 kN

CE EN362 A

HIGH-LOAD SLING

	code	colour	length	weight	breaking load (kN)	items/pack
DYK	AS3075	red	120 cm	125 g	35	1
DYL	AS3076	black	180 cm	260 g	35	1

CE EN566 CE EN354 CE EN795 B

SLING

	code	colour	length	weight	breaking load (kN)	items/pack
DYM	AS3070	blue	80 cm	60 g	23	1
DYN	AS3071	red	120 cm	110 g	23	1
DYP	AS3072	blue	180 cm	260 g	23	1

CE EN566 CE EN354

STEEL ANCHOR SLING

	code	length	weight	Ø cable	breaking load (kN)	items/pack
DYR	AS2045	1 m	518 g	6,3	15	1

technical data

- cable: galvanized steel
- protective sheath: transparent plastic
- thimble: galvanized steel
- sleeve: aluminium

technical data

- maximum dimensions of the structure to which it is to be anchored: square: 250 x 250 mm, cylindrical: Ø 300 mm

CE EN795 B CE EN354

TEMPORARY HORIZONTAL LIFELINE

	code	length	items/pack
DYS	AS9005	20 m	1

description

- the temporary life line is anchored to two special anchors on the structure by spring-catches.
- to assure workers can move safely during assembly or repair work on roofs or structures.

technical data

- adjustable synthetic strap
- does not require intermediate anchorages
- tightened by hand using a jack

contents

- 1 x horizontal temporary life line, 20 m
- 2 x steel screw-ring connector
- 2 x high-load straps 35 Kn - 1,8 m
- 1 x RBBAG knapsack

PPE FALL PROTECTION KIT - 1

	code	items/pack
DYT	AS9001	1

description

- to ensure workers' safety during maintenance work on roofs or structures; ideal for electricians, chimney cleaners, heating technicians, plumbers etc.

contents

- 1 x PROTECTOR helmet code AS3015 page 54
- 1 x SIMPLE harness code AS2005 page 54
- 1 x fall arrest lanyard– double armed 2 m code AS3031 page 60
- 1 x rothosafe bag code RSBAG page 66

PPE FALL PROTECTION KIT - 2

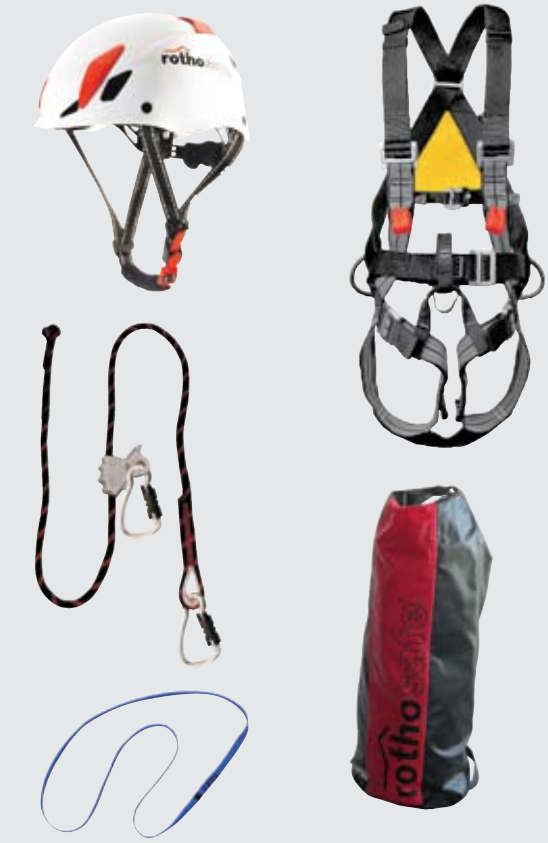
	code	items/pack
DYU	AS9002	1

description

- to ensure workers' safety during assembly and maintenance work on structures; ideal for carpenters, tinsmiths, system installers etc.

contents

- 1 x PROTECTOR helmet code AS3015 page 54
- 1 x SIMPLE harness code AS2005 page 54
- 1 x guided fall arrester on 10 m anchor line code AS2010 page 58
- 1 x strap, 1.8 m code AS3072 page 63
- 1 x rothosafe bag code RSBAG page 66



PPE POSITIONING KIT

	code	items/pack
DYU	AS9003	1

description

- to ensure workers' safety during assembly and maintenance work on structures; ideal for carpenters, tinsmiths, system installers etc.

contents

- 1 x PROTECTOR helmet code 3015 page 54
- 1 x STANDARD harness code AS3005 page 53
- 1 x restrainer and work-positioning rope, 10 m, code AS3020 page 55
- 1 x strap, 1.8 m code AS3072 page 63
- 1 x rothosafe bag code RSBAG page 66

RESCUE KIT
RESCUE SYSTEM FOR ELEVATION WORK

	code	items/pack
DYW	AS9004	1

description

- easy to use, compact, low possibility of assembly errors – equipped with anti-panic device assuring safe fall-arrest lock – operator descender system

contents

- 1 x ANTI-PANIC DESCENDER
- 2 x TWIST LOCK STEEL CONNECTORS
- 1 x HIGH LOAD STRAP 35 Kn - 1,8 m
- 1 x 25 m rope with stitched eyelets and 2 connectors
- 1 x shears with rounded tips
- 1 x rothosafe bag code RSBAG page 66

front

rear

ROTHOSAFE BAG

	code	volume	weight	height	colour	items/pack
DYX	RSBAG	30 l	690 g	700	red/black	1

description

- strong bag, material: Tarpaulin
- completely waterproof
- with practical instructions pocket inside

BACKPACK ROTHOSAFE

	code	volume	weight	height	colour	items/pack
DYY	RBBAG	23,6 l	500 g	400	white/black	1

description

- padded adjustable shoulder straps
- internal and front pocket for instructions
- compartment for shoes

FOLDABLE NOISE-PROTECTION EARMUFFS

	code	weight	items/pack
DYZ	AS2100	236 g	1

description

- noise abatement SNR = 32
- strong, wear-resistant steel arch
- arch padded for lasting comfort
- modern design
- cup height adjustment that stays in place during use

fields of use

- public administration• armed forces • mechanical/metallurgical industries • airports
- building and construction • foundries• glass industry • green areas • police • steel industry
- petrochemical plants• textile industries • wood industries • industry in general

EN 352-1

NOISE PROTECTION EARMUFFS

	code	weight	items/pack
DZA	AS2105	141 g	1

description

- noise abatement SNR = 23
- economical design to provide moderate protection at low cost
- very light earmuffs for comfortable use all day long
- dielectric headset suitable for all work environments

fields of use

- mechanical/metallurgical industries • building and construction • textile industries • municipal services
- wood industries • water treatment • industries in general

EN 352-1

NOISE PROTECTIVE EAR-MUFFS FOR VERTEX ST HELMET

	code	weight	items/pack
DZB	AS2108	192 g	1

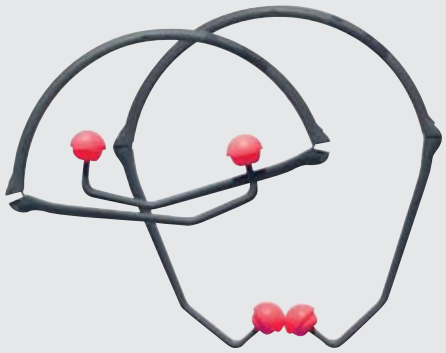
description

- noise abatement SNR = 28
- installed on VERTEX ST helmet code AS4015 or AS4016 using adapters code AS2107
- for noise protection in any workplace situation
- strong steel arms suitable for even the most demanding working conditions
- telescopic cup-height adjustment assures stability
- spacious cups and soft pads
- adaptors for VERTEX ST helmet included

fields of use

- building and construction • foundries • green areas • steelworks • mining • petrochemical sector telecommunications • wood industries • industries in general

EN 352-3



EARPLUG INSERTS WITH ARCH

	code	weight	items/pack
DZD	AS2110	55 g	1

description

- noise abatement SNR = 24
- semiauricular protection, very soft plugs that stay in place outside the ear passage
- the multiposition arch can be worn over the head, under the chin or behind the neck
- light, foldable, can be kept in a pocket when not needed
- the perfect solution for those who need occasional noise protection

fields of use

- graphic industries • textile industries • municipal services• transport• welding• work-sites
- wood industries • water-treatment • industries in general

EN 352-2

SINGLE-USE EARPLUGS

	code	weight	items/pack
DZE	AS2111	0,48 g	1 pair

description

- noise abatement SNR = 33
- special polyurethane foam mix in two colours
- feels soft to touch and inside the ear
- tapered form for easy insertion and removal
- smooth outer surface for better hygiene

fields of use

- mechanical/metallurgical industries • building and construction • energy • glass industry • textile industries
- steel industry • paper industries • wood industries • industries in general • welding

EN 352-2

SAFETY GLASSES WITH ADJUSTABLE STEMS

	code	weight	items/pack
DZF	AS2115	38 g	1

description

- adjustable stem slant and length
- soft, anti-slip nose-rest
- arch with soft gasket for perfect adherence to all face shapes
- protection from UV rays
- scratch-resistant

fields of use

Protective goggle with wrap-around polycarbonate lens with 9-point curve. For protection from moving particles; tested for impact resistance with a 6 mm diam. steel sphere projected at a speed of 45 m/s. Suitable for protection from mechanical hazards, e.g.: grinding, turning, milling, woodworking and whenever there are risks of chip or splinter impact or projection

EN 166 EN 170

SAFETY GLASSES WITH STEMS

	code	weight	items/pack
DZG	AS2120	21 g	1

description

- ultralight design
- anti-slip inserts on the terminal part of the stems
- shape-fitting universal nose-piece
- UV ray protection
- scratch-resistant

fields of use

Goggle with 8-point lens curvature. Protection from moving particles. Impact-resistance tested with a 6 mm diam. steel sphere projected at a speed of 45 m/s. Suitable for protection from mechanical hazards, e.g..: grinding, turning, milling, woodworking and whenever there are risks of chip or splinter impact or projection.

EN 166 EN 170

SAFETY MASK GLASSES

	code	weight	items/pack
DZH	AS2125	93 g	1

description

- mask goggle with indirect ventilation and anti-fogging treatment
- colourless polycarbonate lens
- elastic polyester and natural rubber harness attached to turning pins
- UV ray protection
- scratch-resistant

fields of use

Protection from high-speed moving particles. Tested for Impact-resistance with a with a 6 mm diam. steel sphere projected at a speed of 120 m/s. Suitable as protection from high mechanical risk and in the presence of dusts or squirts of chemical substances e.g.: grinding, turning, milling, cement plants and chemical risks in general.

EN 166 EN 175

SINGLE-USE FILTER FACE-MASK FFP1D
WITH VALVE, FOR PROTECTION FROM LOW-TOXICITY HAZARDS

	code	weight	items/pack
DZJ	AS2130	15 g	20

description

- protection from particles– FFP1
- protection from low-toxicity dusts/aerosols. Suitable in the presence of iron, rust, concrete, cement, stone, fillers, vegetable and mineral oils, light detergent substances

fields of use

- building and construction • energy • green areas • steelworks • maintenance • textile industries
- wood industries • industries in general

EN 149

SINGLE-USE FILTER FACE-MASK FFP2D
WITH VALVE, FOR PROTECTION FROM MEDIUM-TOXICITY HAZARDS

	code	weight	items/pack
DZK	AS2135	15 g	20

description

- protection from particles – FFP2
- protection from medium -toxicity dusts/aerosols. Suitable for wood, steel, silica, fibreglass, galvanizing, welding fumes, chalk, aluminium

fields of use

- farming • mechanical/metallurgical industries • chemical/pharmaceutical industries • foundries
- glass industry • building and construction • steel-works • mining sector • paper industries
- textile industries • wood industries • industries in general

EN 149

SINGLE-USE FILTER FACE-MASK FFP3D
WITH VALVE AND TOTAL SEAL GASKET

	code	size	weight	items/pack
DZL	AS2140	medium	15 g	5

description

- protection from particles– FFP3
- protection from toxic dusts/aerosols. Indicated for lead, stainless steel, asbestos, copper

fields of use

- farming • mechanical/metallurgical industries • chemical/ pharmaceutical industries • foundries
- building and construction • steel-works • mining sector • wood industries • health

EN 149

GLOVES FOR LIGHT HANDLING WORK

	code	size	length	fineness	items/pack
DZM	AS2150	8	245	13	10
DZN	AS2151	9	245	13	10
DZP	AS2152	10	245	13	10

technical data

- EN 420-2003 EEC General criteria
- EN 388-2003 Mechanical risks
- abrasion resistance: 4
- cut resistance: 1
- tear resistance: 3
- perforation resistance: 1
- gloves made of polyamide/cotton/lycra knit fabric
- palm and fingertips coated with black foamed nitrile
- ventilated back, elastic knit cuff
- product technology: coated knit fabric
- dexterity: Class 5

fields of use

- for light handling work in oily, humid and greasy environments. For assembly and welding work, woodwork, building, automobile industry, household appliance industries.

CUT-RESISTANT GLOVES

	code	size	length	fineness	items/pack
DZR	AS2155	8	240	13	10
DZS	AS2156	9	240	13	10
DZT	AS2157	10	240	13	10

technical data

- EN 420-2003 EEC General criteria
- EN 388-2003 Mechanical risks
- abrasion resistance: 4
- cut resistance: 3
- tear resistance: 4
- perforation resistance: 3
- gloves made of dyneema and polyamide knitted fabric
- grey polyurethane foam coating on palm and fingertips
- ventilated back, elastic knit cuff
- product technology: coated knit fabric
- dexterity: Class 5

fields of use

- for handling sharp parts in dry environments

COLD RESISTANT THERMAL GLOVES

	code	one size	length	fineness	items/pack
DZU	AS2161	9	285	13	10

technical data

- EN 420-2003 EEC General criteria
- EN 388-2003 Mechanical risks
- EN 511-2006 Cold resistance
- abrasion resistance: 3
- cut resistance: 2
- tear resistance: 2
- perforation resistance: 3
- EN 511 – protection from low temperatures
- conductive cold resistance: 2
- cold contact resistance: 2
- water-tightness: 1
- green bovine suede
- suede thickness 1.0-1.2 mm
- fully lined with thinsulate
- cotton back with water-repellent inserts
- polyamide stitching
- product technology: cutting and stitching
- dexterity: Class 5

fields of use

- protection from cold– hydrorepellent

GLOVES WITH PROTECTION FROM CHEMICAL AGENTS

	code	size	length	thickness	items/pack
DZV	AS2165	8	330	0,72	10
DZW	AS2166	9	330	0,72	10
DZX	AS2167	10	330	0,72	10

technical data

- EN 420-2003 EEC General criteria
- EN 388-2003 Mechanical risks
- EN 511-2006 Cold resistance
- abrasion resistance: 3
- cut resistance: 1
- tear resistance: 1
- perforation resistance: 1
- gloves made of unlined neoprene
- flocked cotton interior
- product technology: immersion gloves
- dexterity: Class 5

fields of use

- protection from a wide range of chemical products (detergents, some solvents, acid and alkaline substances) particularly suitable for handling solvents

FIRST AID BOX – MEDBOX BASIC

	code	size	colour	items/pack
DZY	AS8000	320x230x90	green	1

description

• Group C – App. 2 Min. Decr. 388 of 15/07/2003 – D.P.P 25 of 13/06/2005 (up to 2 workers)

contents

• 1 copy of Ministerial Decree N° 388 of 15.07.03
• contents list DPP 25/2005
• 2 sterile single-use gloves
• 125 ml of iodopovidone cutaneous solution, 10% iodine
• 250 ml of physiological solution (sodium chloride – 0,9%)
• 3 sterile gauze compresses 20 x 20
• 1 sterile gauze compress 18 x 40
• 1 pack of cotton wool
• 1 latex rubber hemostatic loop
• 1 single-use sterile tweezer
• 1 pack of adhesive bandages, various sizes 20 pieces
• 1 roll of adhesive tape 2.5 cm wide
• 1 pair of scissors
• 1 ready-to-use ice pack
• 1 single-use bag for collecting sanitary waste
• 2 pad bandages 8 x 10 cm
• 2 pad bandages 10 x 12 cm
• 2 soft gauze bandages 4 m x 8 cm
• 2 gauze bandages 5 m x 10 cm
• 1 gold-silver isothermal blanket
• 1 protection device for artificial ventilation
• 1 multilingual first aid instructions booklet

FIRST AID BOX - MEDBOX FULL

	code	size	colour	items/pack
DZZ	AS8010	410x310x100	green	1

description

• Group AB - App. 1 Min. Decr. 388 of 15/07/2003 – D.P.P 25 of 13/06/2005 (more than 2 workers)

contents

• 1 copy of Ministerial Decree N° 388 of 15.07.03
• contents list DPP 25/2005
• 5 sterile single-use gloves
• 1 splash-protection visor
• 1000 ml of iodopovidone cutaneous solution, 10% iodine
• 1500 ml of physiological solution (sodium chloride – 0,9%)
• 10 sterile gauze compresses 20 x 20
• 2 sterile gauze compresses 18 x 40
• 2 single-use sterile towels 40x60 cm
• 1 medium-sized pack of elastic webbing
• 1 pack of cotton wool
• 3 latex rubber hemostatic loops
• 2 single-use sterile tweezers
• 2 packs of adhesive bandages, various sizes 20 pieces
• 2 rolls of adhesive tape 2.5 cm wide
• 1 pair of scissors
• 2 ready-to-use ice packs
• 2 single-use bags for collecting sanitary waste
• 1 digital thermometer
• 1 blood-pressure measurement device with phonendoscope
• 3 pad bandages 8 x 10 cm
• 3 pad bandages 10 x 12 cm
• 3 hemmed gauze bandages: soft gauze 4 m x 8 cm
• 3 gauze bandages 5 m x 10 cm
• 1 gold-silver isothermal blanket
• 1 protection device for artificial ventilation
• 1 bottle of disinfectant 250 ml
• 1 multilingual first aid instructions booklet

REFILL PACK - MEDBOX BASIC

	code	items/pack
EAA	AS8020	1

description

• Group C – App. 2 Min. Decr. 388 of 15/07/2003 – D.P.P 25 of 13/06/2005 (up to 2 workers)

contents

• 1 copy of Ministerial Decree N° 388 of 15.07.03
• contents list DPP 25/2005
• 2 sterile single-use gloves
• 125 ml of iodopovidone cutaneous solution, 10% iodine
• 250 ml of physiological solution (sodium chloride – 0,9%)
• 3 sterile gauze compresses 20 x 20
• 1 sterile gauze compress 18 x 40
• 1 pack of cotton wool
• 1 latex rubber hemostatic loop
• 1 single-use sterile tweezer
• 1 pack of adhesive bandages, various sizes 20 pieces
• 1 roll of adhesive tape 2.5 cm wide
• 1 pair of scissors
• 1 ready-to-use ice pack
• 1 single-use bag for collecting sanitary waste
• 2 pad bandages 8 x 10 cm
• 2 pad bandages 10 x 12 cm
• 2 soft gauze bandages 4 m x 8 cm
• 2 gauze bandages 5 m x 10 cm
• 1 gold-silver isothermal blanket
• 1 protection device for artificial ventilation
• 1 multilingual first aid instructions booklet

REFILL PACK - MEDBOX FULL

	code	items/pack
EAB	AS8030	1

description

• Group AB - App. 1 Min. Decr. 388 of 15/07/2003 – D.P.P 25 of 13/06/2005 (more than 2 workers)

contents

• 1 copy of Ministerial Decree N° 388 of 15.07.03
• contents list DPP 25/2005
• 5 sterile single-use gloves
• 1 splash-protection visor
• 1000 ml of iodopovidone cutaneous solution, 10% iodine
• 1500 ml of physiological solution (sodium chloride – 0,9%)
• 10 sterile gauze compresses 20 x 20
• 2 sterile gauze compresses 18 x 40
• 2 single-use sterile towels 40x60 cm
• 1 medium-sized pack of elastic webbing
• 1 pack of cotton wool
• 3 latex rubber hemostatic loops
• 2 single-use sterile tweezers
• 2 packs of adhesive bandages, various sizes 20 pieces
• 2 rolls of adhesive tape 2.5 cm wide
• 1 pair of scissors
• 2 ready-to-use ice packs
• 2 single-use bags for collecting sanitary waste
• 1 digital thermometer
• 1 blood-pressure measurement device with phonendoscope
• 3 pad bandages 8 x 10 cm
• 3 pad bandages 10 x 12 cm
• 3 hemmed gauze bandages: soft gauze 4 m x 8 cm
• 3 gauze bandages 5 m x 10 cm
• 1 gold-silver isothermal blanket
• 1 protection device for artificial ventilation
• 1 bottle of disinfectant 250 ml
• 1 multilingual first aid instructions booklet

3. COLLECTIVE PROTECTION – TEMPORARY AND PERMANENT

3. COLLECTIVE PROTECTION – TEMPORARY AND PERMANENT

• TEMPORARY PROTECTIONS FOR WOODEN ROOFS

Temporary protections for wooden roofs are collective protection systems. These systems prevent falls from heights during repair and installation works on roofs and make it possible to work on the roofs of civil and industrial buildings in perfect safety. When temporary protection systems are used, the worker can do without a PPE and can move freely on the roof. The parapets are divided, depending on their characteristics, into lateral and frontal application categories. They are in conformity with EN 13374/04.

• SAFETY NETS

Fall protection safety nets are collective protection systems. They protect personnel from falls from a height during repair and building-site works and make it possible to work on the roofs of civil and industrial buildings in perfect safety. Safety nets allow workers great freedom of movement. In the event of a fall, the impact is absorbed by plastic deformation. Every fall protection net must bear a legible identification label, in conformity with EN 1263-1.

• SAFETY RAILING FOR FLAT ROOFS - BARRIAL

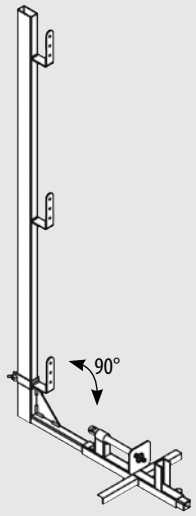
Safety railing provides permanent collective protection for flat roofs. It is an ideal solution for roofs that are periodically visited by several operators for servicing or repair work on technological systems. The operators can move freely without needing to wear adequate personal protection equipment. In conformity with EN 14122-3 and EN 13374 – protection class A.

• SAFETY RAILING FOR WINDOWS

Fall protection for windows consists of telescopic railing. It can be installed in different adjustable lengths and features 4 freely projecting U-shaped sections, which rest on the window frame. It is thus possible to protect persons from falling out while working on open windows, in keeping with the provisions of the law. In conformity with EN 12811-1.

• SKYLIGHT PROTECTION

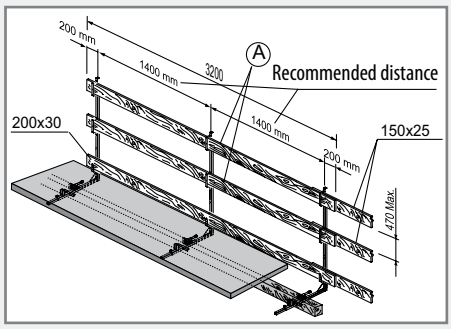
Safety device that protects operators from falling through skylights. In conformity with EN 1263-1.

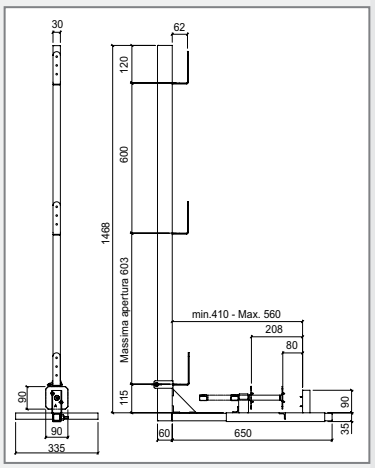


TEMPORARY PROTECTION FOR WOODEN ROOFS - LATERAL

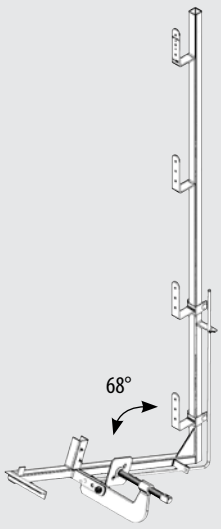
	code	degrees	weight	torque	items/pack
CAE	AS1005	90°	7,8 kg	3 da Nm	1

Edge protection system, Class "A" as per UNI EN 13374/04
CERTIFICATE N° DTS-XI/03/03/SPB DATED 03 OCTOBER 2003





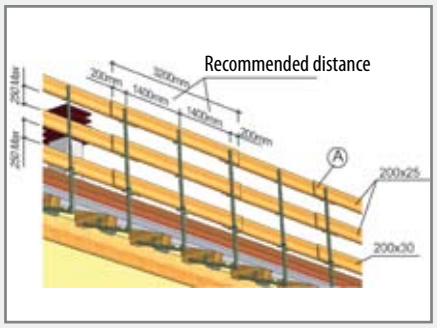
The parapet is designed and certified to be used as a support for temporary lateral protections against falls during repair and assembly work on building sites, to make it possible to work on the roofs of civil and industrial buildings in complete safety. It can support a person who leans on the protection while walking, or is falling in the direction of the protection. It must be used only and exclusively fastened onto wooden beams with thickness ranging from 80 to 200 mm that are adequate for the transferred loads indicated in the manual.

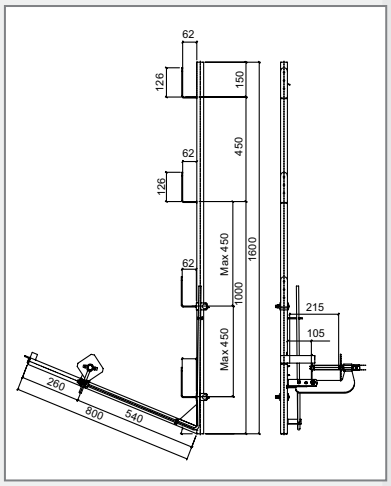


TEMPORARY PROTECTION FOR WOODEN ROOFS - FRONTAL

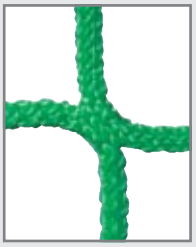
	code	degrees	weight	torque	items/pack
CAE	AS1010	68°	10 kg	3 da Nm	1

Edge protection system, Class "B" as per UNI EN 13374/04
CERTIFICATE N° DTS-XI/03/01/SPB DATED 03 OCTOBER 2003



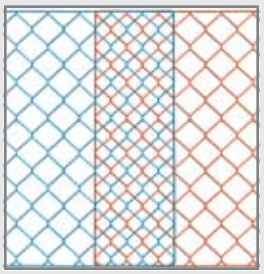


The parapet is designed and certified to be used as a support for temporary lateral protections against falls during repair and assembly work on building sites, to make it possible to work on the roofs of civil and industrial buildings (with slopes not exceeding 30° from horizontal) in complete safety. It can support a person who leans on the protection while walking, or is falling in the direction of the protection. It must be used only and exclusively fastened onto wooden beams with thickness ranging from 100 to 200 mm that are adequate for the transferred loads indicated in the manual. I



net connection:

by stitching with cord



by overlapping

POLYPROPYLENE FALL PROTECTION SAFETY NETS - TYPE S

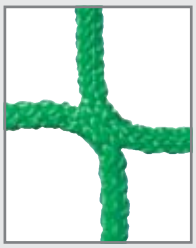
	code	size	mesh	Ø mesh cord	weight	items/pack
CAJ	AS6000	5 x10 m	100	5	11,4 kg	1
CAK	AS6010	6 x10 m	100	5	13,7 kg	1
CAL	AS6020	10 x10 m	100	5	22,9 kg	1
CAM	AS6030	7,5x15 m	100	5	25,7 kg	1

colour: green

other sizes available upon request

description

This type of net is used for the construction of industrial sheds, viaducts, bridges, overpasses etc. The safety nets must be installed as close as possible below the working level.
To install the net on the anchors, use fastening cord code AS6050 in the necessary lengths.
The characteristic load of the anchors must be at least 6 kN. The distance between anchors must be less than 2.5 m.
To join up several safety nets, stitch together using cord code AS6060 and passing it through mesh by mesh.
There must be no openings greater than 100 mm in this connection. For nets united by overlapping, the minimum overlap will be 2 meters.



POLYPROPYLENE LATERAL PROTECTION NETS - TYPE S

	code	size	mesh	Ø mesh cord	weight	items/pack
CAH	AS6040	2 x10 m	100	5	4,5 kg	1

colour: green

other sizes available upon request

description

The lateral protection net is suitable for edge protection systems on roofs or scaffolding. The net is installed in a vertical position. This net is installed by inserting each individual mesh in the pipes of the scaffolding or edge protection system.

FASTENING CORD

	code	Ø	breaking load (kN)	items/pack
EAC	AS6050	14	30	m

other sizes available upon request

description

- plaited cord for connecting safety nets to anchors.
- order the length required

STITCHING CORD

	code	Ø	breaking load (kN)	items/pack
EAD	AS6060	6	7,5	m

other sizes available upon request

description

- plaited cord for stitching two nets together
- order 1.5 m of rope for each 1 m of seam length – e.g. to join together two nets for a length of 10 m, you will need 15 m of stitching cord

SAFETY NET FOR TROLLEYS AND CONTAINERS

	code	size	mesh	Ø mesh cord	weight	items/pack
EAE	AS0070	3 x 4 m	45	3	2,7 kg	1
EAF	AS0080	3.5 x 6 m	45	3	4,8 kg	1

description

- colour : green
- safety net for trolleys, trailers and bins code AS0070
- safety net for containers code AS0080
- for safe carriage of loads
- made of high-strength polypropyle

technical data

- equipped with a Ø 6 mm rubber cord for tightening

SAFETY RAILING FOR FLAT ROOF - BARRIAL

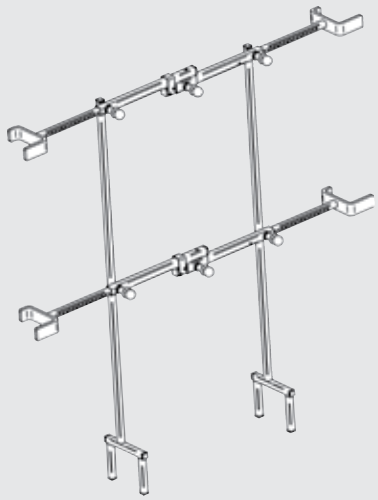
fields of use

- occasionally frequented flat roofs
- presence of technological systems to be checked or inspected
- collective protection – unlimited number of workers
- working without PPE – moving freely on the roof
- the client need not worry about workers' safety

description

- aluminium railing – corrosion resistant
- self-supporting version
- version fixed onto the roof
- height-adjustable sections
- the most suitable system is planned on project data

Price by quotation upon request



SAFETY RAILING FOR WINDOWS

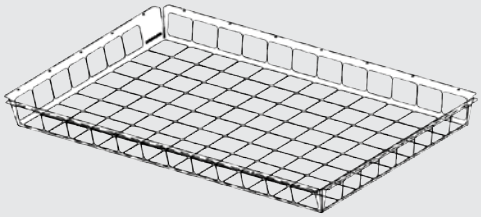
	code	material	weight	adjustment range	items/pack
EAG	SI102070	galvanized steel	5 kg	400 - 910	1
EAH	SI102080	galvanized steel	7 kg	770 - 1720	1
EAJ	SI102090	galvanized steel	4,6 kg	490 - 730	1
EAK	SI102100	galvanized steel	5 kg	700 - 1160	1
EAL	SI102110	galvanized steel	5,9 kg	1100 - 1570	1

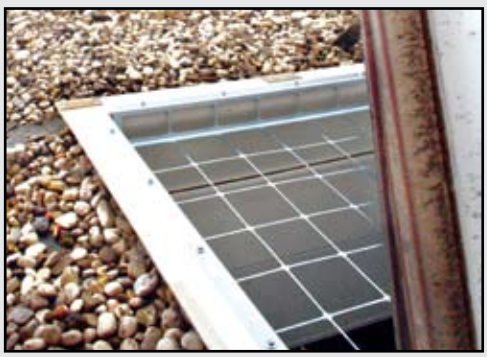
description

- ideal for both old and new buildings
- no need for preinstalled architectonic devices
- low investment costs

technical data

- product tested with weight of 125 kg





SKYLIGHT PROTECTION - LIGHT

	code	material	weight	items/pack
EAM	SI104000	galvanized steel	5 kg	1

description

- easy to install
- various sizes available, depending on skylight dimensions
- high permeability to light

technical data

- dynamic testing with 100 kg weight, 1 m free fall
- static testing with 300 kg weight
- platemetal thickness 2 mm

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