

Experience & innovation to keep you safe

P. 4-5 Basic concepts of working heights
 P. 6-7 The promise of turnkey safety
 P. 8-9 Designing of tailored solutions
 P. 10-11 Selection guide: systems

Anchors & anchor points

P. 12-19 Anchors & anchor points for all types of roof

Horizontal lifelines

P. 20-21 Altiligne horizontal lifeline
P. 22-23 Batiligne horizontal lifeline
P. 24-25 Altirail horizontal fall protection rail
P. 26-27 Altirail LR long-span fall protection rail

Angled lifeline

P. 28-29 COMBIRAIL angled fall protection rail

Vertical lifelines

P. 30-31 Vertiligne vertical lifeline
 P. 32-33 Vertirail vertical fall protection rail
 P. 34-35 Ladderrail vertical fall protection rail

Collective protection

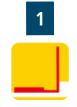
P. 36-37 EVO range & selection guide P. 38-40 List of parts P. 41 Self-supporting guardrail P. 42 Guardrail for steel deck P. 43 Guardrail for waterproofed slab P. 44 Guardrail for waterproofed deck P. 45 Guardrail on parapet P. 46 Flat & surface-mounted guardrail P. 47 Folding system for guardrails P. 48 -49 Fall protection & grids for roof lights or translucent elements

Ladder, accessories & Personal Protective Equipment

P. 50-51 Ladder with safety cage
P. 52-53 Supports, embellishments & waterproofing accessories

P. 54-55 Personal protective equipment

6



Self-supporting railing



Railing on parapet



Railing on steel deck



Railing on waterproofed slab/deck



Ladder



Pathways





Extensive horizontal movement, suspended access and/or access under tension possible





Extensive horizontal or vertical movement or on angled plane





Horizontal movement





Continuous horizontal movement





Vertical movement





Extensive vertical movement





Limited horizontal movement (below 3 m)



Tailored safety solutions



Basic concepts of working at heights

Fall factor

The fall factor represents the proportional severity of a fall

Its value ranges from 0 to 2 and is obtained by dividing the height of the fall by the length of the rope. To limit the fall factor:

- always prefer work with restraint
- raise the position of the anchor point (the higher the worker is above their anchor point, the more severe the fall)
- make the connecting system as short as possible.



Factor 0

Limited free fall

The anchor point is located above the worker's head and their lanyard



Factor 1

Free fall that may reach up to once the length of the connecting system

The anchor point is located on the worker's chest (at the sternal attachment of the harness)



Factor 2

Free fall that may reach up to twice the length of the connecting system

The anchor point is located close to or under the worker's feet (between the sternal attachment of their harness and the ground)

Clearance

Distance between the user's feet and the first impact zone

Clearance is the distance between the user's feet and the first impact zone. There is a difference between available clearance and required clearance.

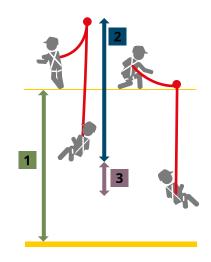
Available clearance

- Distance between the structure on which the worker is working at a height and the nearest obstacle (ground, balcony etc.)
- 2 Required clearance
 - Minimum distance required for the worker to fall with no risk of colliding with the nearest obstacle.



LÉGENDE

- 1 Available clearance
- Length of the line
 + energy absorber extension
 + worker's height
- 3 Safety distance (1m)



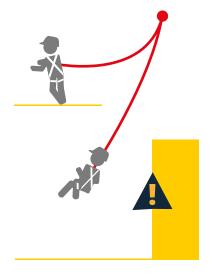
Pendulum effect

Risk of the worker swinging in multiple directions in the event of a fall

The pendulum effect is the risk that the worker may swing in multiple directions in the event of a fall.

That could lead to collision between the worker and the ground or even an obstacle (wall, platform, etc.). It generally occurs when the anchor point is not located exactly above the worker working at a height.

To limit the risk of the pendulum effect, the angle between the worker and the anchor must be reduced, while taking account of the fall factor.



Impact force

Severity of a fall depending on the weight of the user and their equipment

The greater the total weight of the worker and their equipment, the greater the quantity of energy to absorb during a fall. Exceeding 100 kg is fairly easy. That mass must be multiplied by 9.81 for a free fall over 1 metre.

That is why it is indispensable to make sure the energy absorption capacity of the fall-arrest system is never exceeded, to limit the force of the impact experienced by the user.

Useful information: permanent fall-protection systems are now designed in Europe to limit the impact force to 600 DaN and are tested for factor 2, the least favourable.



The promise of turnkey safety

Our duty is to protect people at work.

To that end, we design and manufacture complete solutions for personal and collective worker protection across the world.

Through our **46 subsidiaries in 30 countries** all over the world, we operate and distribute our products in over 110 countries.

Our complete offer encompasses five large families of personal protective equipment and collective protection systems.

Our products are designed to achieve three goals: **safety, comfort and good design**. Each of our solutions is challenged by our research and development experts. That enables us to offer ever more advanced and more differentiating solutions.





Integrated

design and

A complete safety

range

manufacturing





Audit & advice

Our primary concern: the user

Every day, we make your concerns our own in order to design personal protective equipment and permanent fall-protection systems that are suited to your working environments.

Regardless of your organisation or the shape of your building, our in-house engineers work on designing tailored solutions that are fully adapted to your needs.

Inspection

The assurance of

optimum quality

As part of our continuous search for optimum quality, our products are tested and certified to applicable standards.

Our products undergo indepth testing in our own quality control laboratory before they are certified by notified independent testing bodies.

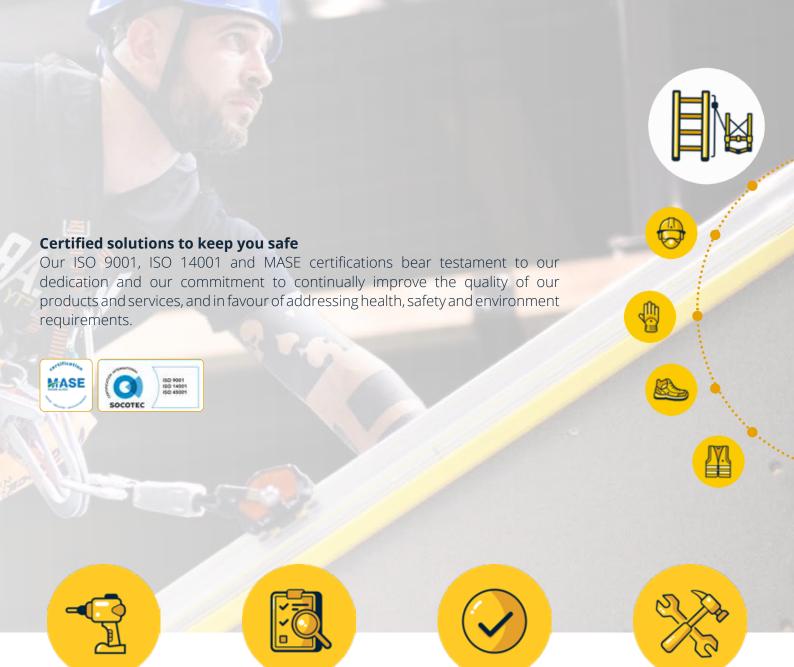
Because we are convinced that human support is a key requirement, you will find our teams in France and elsewhere, ready to offer training and all the

engineering and installation

assistance you may need.

Support

Closeness to users



Installation

Ready-to-use solutions

You can trust our installation partners, who are trained and certified all over the world, and benefit from a turnkey solution wherever you are located.

Verification

Verification and validation of your equipment

Our teams take charge of initial inspections, commissioning and the periodic verification of your fall-protection equipment and systems.

Training & approval

Teaching of good techniques and practices for safe working at heights

As a regulated training body, we can transmit our know-how and experience by training users in good techniques and practices so that you can address all the risks relating to your business activity.

Maintenance and upgrading for compliance

Replacement of equipment in the event of nonconformity

Our teams can inspect your fall-protection equipment and systems and replace them if they are found to be nonconforming.

Designing of tailored solutions

Our international engineering team supports products that can address the local requirements of standards and customers.

Our project managers and trade specialists will support you in the development of your project and coordinate with our production staff to manufacture high-quality fall-protection systems.

Our **know-how** in the areas of **production** and assembly, combined with our **in-house design department**, allows us to **design tailored solutions that are adapted to your expectations and working requirements**, in compliance with **applicable standards**.

Walkways with non-slip floors

Designing of tailored walkways (on supports, PRM and/or suspended) suitable for slopes ranging from 0 to 20° and all types of substrates







Movement platforms with non-slip floors

Designing of platforms for maintaining equipment and machinery, adapted to all types of base structures







From designing to standards, from environmental requirements to value creation

Steps

Designing of tailored access equipment suitable for slopes ranging from 20 to 45° and all types of supports

Possibility to add locking doors to make use safer

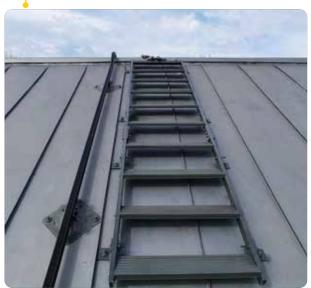




Step ladders

Designing of tailored step ladders with railings or fallprotection rails suitable for slopes ranging from 45 to 75°, for all types of support





Gantries

Designing of gantries fitted with fall-protection rails for maintaining special equipment or for loading and unloading vehicles

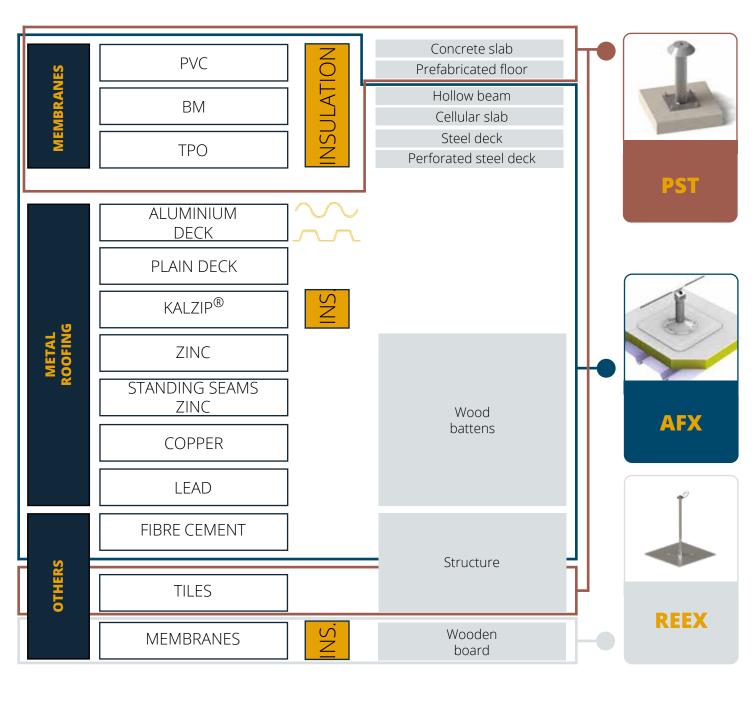




Personal protection



1 DEFINE YOUR SUBSTRATE



Legend



Types of structure & waterproofing



Fastening supports



Roofing



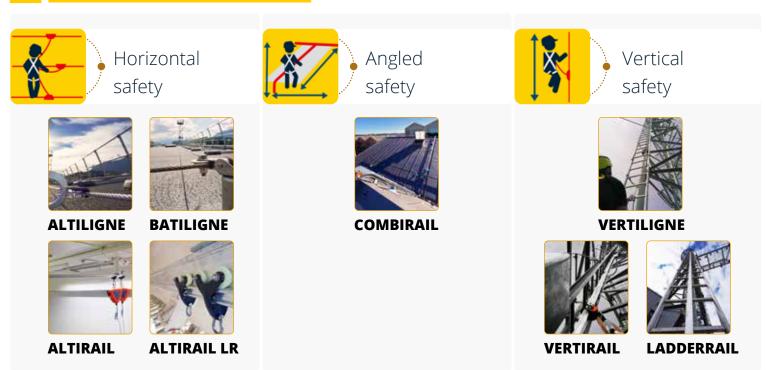
Interfaces



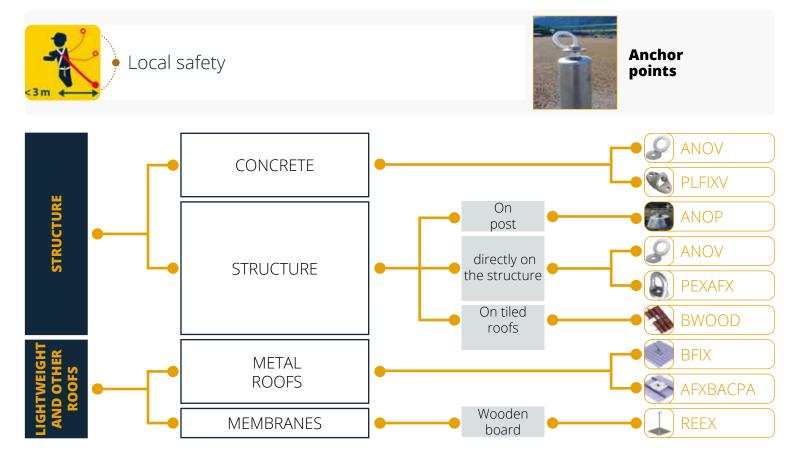
Optional insulation

Selection guide: systems





3 FOR SAFETY IN A DEMARCATED AREA



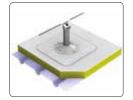
Application substrates

Waterproofed & metal decks

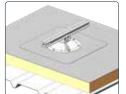


PVC OR BITUMEN





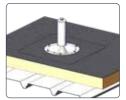
Lifeline anchor WVAFXPVC



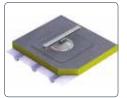
Rail anchor WVRAFXPVC



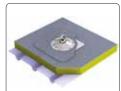
Anchor point WVAFXPVCPA



Lifeline anchor WVAFXBM



Rail anchor WVRAFXBM

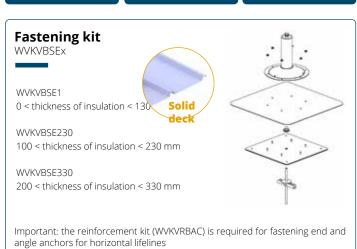


Anchor pointWVAFXBMPA

Hollow beam Cellular slab Solid steel deck Concrete slab

Prefabricated wide

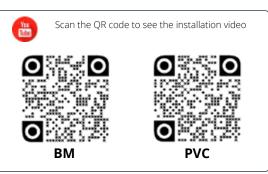
Perforated steel deck







- Fitted directly on the waterproofing
- A single central fastener connects to the deck
- Installation independent of the structure
- Version available for perforated deck















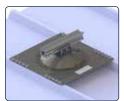


STEEL DECK

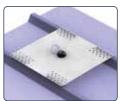




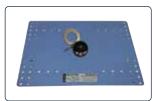
Lifeline anchorWVAFX2FR
Special centre distances:
WVAFX2ES or WVZOI



Rail anchorWVRAFXST
Special centre distances:
WVRAFXSTES or WVZOI

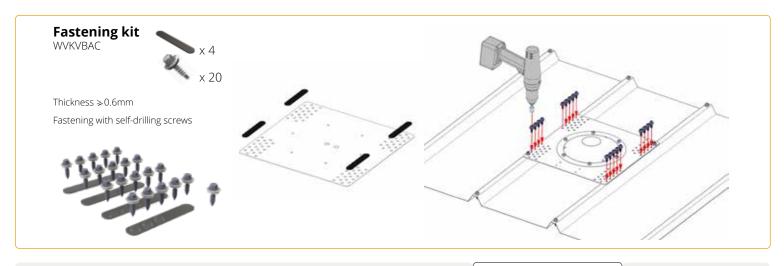


Anchor point
WVAFXBACPA
Special centre distances:
WVAFXBACPAES or WVZOIPA



Anchor point
WVAFXBACOPA
(dedicated to Ondulit steel roofs)

Standard steel deck



- Compatible with centre distances 250, 280, 304&333 mm Special centre distances on request for lifeline or rail anchors ann for anchor points (part number WVAFXxSPECIF)
 - (part number WVAFXxSPECIF)

 Centre distances for ES versions: 415 & 440 mm
- Centre distances for ZOI versions: 300, 352, & 386 mm





Scan the QR code to see the installation video





Compatible with the following centre distances:

193.25, 264 & 299 mm

Application substrates

Metal roofs



STEEL & ALUMINIUM DECK



Steel deck



Ladder anchors and supports

Ladder anchors and supports WVBFXAT & WVBFXATC

WVBFXAS & WVBFXASC

Lifeline anchor WVAFX1

Compatible with:



Metal plates of the cold profile type

L > 50mm; thickness > 1.5mm

Min. metal plate: IPN or UPN 80

L > 50mm; thickness > 1.5mm



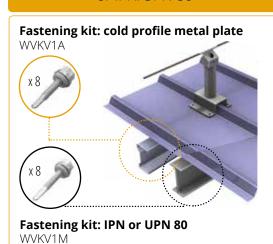


Ladder anchors and supports WVBFXS & WVBFXSC

Scan the QR code to see the installation



Cold profile metal plate or IPN/UPN 80



Anchor point alone or with ladder anchor available on sinusoidal and trapezoidal deck

Part no WVBFXS (plain)

Part no WVBFXSC (ladder)

Part no WVBFXT (plain)

Part no WVBFXTC (ladder)

Fastening kit included

Anchor point alone or with ladder anchor available on sinusoidal and trapezoidal deck:

Part no WVBFXS (plain)

Part no WVBFXSC (ladder)



Part no WVBFXAT (plain)

Part no WVBFXATC (ladder)

Fastening kit included















ALUMINIUM



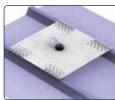
Aluminium



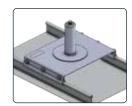
Lifeline anchor WVAFX2FR



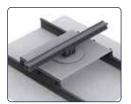
Rail anchor WVRAFXST



Anchor point WVAFXBACPA



Lifeline anchor WVAFXKAL1



Rail anchor WVRAFXKAL



Anchor point WVAFXKAL2

Sinusoidal



Thickness ≥ 0.9mm

Trapezoidal





- Compatible with centre distances: 250, 280, 304 & 333 mm
- Special centre distances on request for lifeline or rail anchors and for anchor points (WVAFxSPEFIC)

- Fastened directly on standing seams diameter 20mm (Kalzip, Bémo etc.)
- 100% stainless steel
- Standing seam centre distance: 400 mm
- Special centre distance on request
- Thickness of aluminium deck > 0.9mm
- Fastening: rivets (kit included)

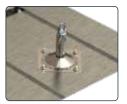


ZINC & COPPER





Lifeline anchor WVAFXZN



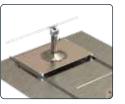
Anchor point WVAFXZNPA



Rail anchor WVRAFXZN



ZN Lifeline a



Lifeline anchor WVAFXZNID



Anchor point WVAFXZNIDPA

Wooden roofs







Wooden roofs

- Installation with no work on the underside, no blocking of zinc dilatation
- Can withstand strain in all directions
- Certified for wooden battens 12mm thick
- Available in clamping version (JD part numbers) for corrugation centre distances of 430 or 580mm
- Fastening kit included

















Other types

CONCRETE











Square post WVPSTC



Anchor ring WVANOV



Anchor points WVPLFIXVI (st st) & WVPLFIXV

Fastening kit WVANCRM12 Ø12mm fasteners HILTI HVU M12

WVPST2



Waterproofing connection accessories:

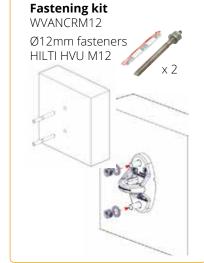
- Aluminium sleeve (WVFALU1)
- PVC sleeve (WVFPVC1)



- Fastening: chemical or metal anchors
- Available in four different versions: standard, square, insulated & stainless steel



- Environments: indoor & outdoor -40°C to +80°C
- Fastening: chemical or metal anchors
- Facilitates carabiner connection 100% 316L stainless steel Quick and easy installation



- Environments: indoor & outdoor -20°C to +50°C
- Installation on vertical, horizontal or angled structures
- Withstands strain in all directions & suitable for suspended access

Application substrates





STRUCTURE



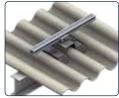




Lifeline anchorWVAFXFC



Rail anchor WVAFXFCPA



Anchor point WVRAFXFC



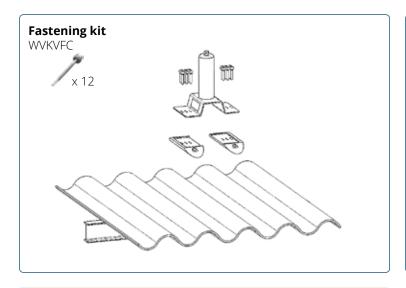
Standard post WVPST1



Standard anchor point

WVPEXAFX

Structure



Structure

Fastening kitWVKBx or WVKCx

WVKBx: Double clamping



WVKB1: 80 - 150 mm WVKB2: 150 - 250 mm WVKB3: 235 - 330 mm

WVKCx: Double clipping



WVKC1: 80 - 150 mm WVKC2: 150 - 250 mm WVKC3: 235 - 330 mm

Structure

Fastening kitWVKBxP or WVKCxP

WVKBxP: Single clamping WVKCxP: Single clipping



WVKB1P: 80 - 150 mm WVKB2P: 150 - 250 mm WVKB3P: 235 - 330 mm



WVKC1P: 80 - 150 mm WVKC2P: 150 - 250 mm WVKC3P: 235 - 330 mm

- Easy installation with no work on the underside
- Fastening on metal structure: minimum IPN 80 or
- Joints adapted to fibre cement plates with 5.5 corrugations for waterproofing
- ► Fastening with clamping kit (WVKBxP) or clipping kit (WVKCxP)
- Available in insulated or square version
- Sleeves for waterproofing connection: aluminium (WVFALU1), PVC (WVFPVC1) or lead (WVKEFP-TUILE)

Fastening with clamping kit (WVKBx) or clipping kit (WVKCx)

















WOODEN BOARD





Anchor point WVPARXx



Lifeline anchor WVRXx





Simple anchors

WVBWOODS and WVBWOOD



Anchors + ladder hooks WVBWOODSC and WVBWOODC

Wooden board - OSB or CTBH (22 mm min.)

Fastening kit not included

WVKVBOIS St st screw A2 x 21 + Wood screw x 2



Waterproofing connection accessories for post

PVC sleeve (WVRXM010) BM sleeve (WVRXM011)

Reinforcement kit

6 dimensions available: WVRXR200 - WVRXR300 - WVRXR400 - WVRXR600 -WVRXR800 - WVRXR1000



accessories for reinforcement kit

PVC sleeve (WVRXM012) BM sleeve (WVRXM013)

Waterproofing connection

- Anchor point certified for 2 workers (item code WVPARXx)
- Available in different heights to adapt to the waterproofing thickness:
 - 200, 300, 400, 600, 800 & 1000 mm
- May be used as a lifeline anchor for heights from 200 to 400 included (item code WVRXx)
- May be used in all axes

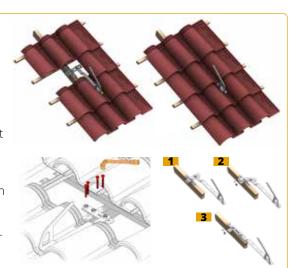
Wooden rafters

Fastening kit included

Lag screw x 4

Screwing of bolts without pre-drilling

Wooden rafter section 3.6 x 6 cm (pre-drilling recommended)



- 100% stainless steel
- Adjustable anchor points, with or without ladder hook and allowing use with all types of connector
- Includes a patented tripping mechanism to keep force in the centre line of the rafter
- Easy installation: top fastening, without waterproofing connection or cutting
- May be installed on all rafter types, including small sections

Altiligne





Benefits

Ease of use

Its dedicated glider can be connected at any point of the cable for unconstrained movement

Ease of installation

Distance between anchors certified to 15 metres

Versatility

Many possibilities of use (at the foot, on façades, overhead etc.) and ideal when the worker is at a distance from the device

Long life

Made in stainless steel for high corrosion resistance

Practicality

The post that is used at the start of the line can also be used as the end post, independently from the number of angles or intermediate pieces (Altifix or PST anchor)

High design

Carefully finished for complete integration into architectural constraints

Safety

Presence of cable tension indicator and fall indicator

ACCESSORIES



CMS3 - Glider

For using the system at a distance without disconnection while passing intermediate parts. Used with all types of connector.



Online tutorials

Go to our YouTube page to see our tutorials for use and installation!



CMS3KR - Roller glider

For use on the underside, inaccessible to the worker. it also makes movement easier when a safety block is used, or with a high-rise connection. Rollers may be added to the glider for heavy loads.

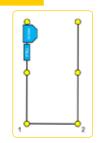


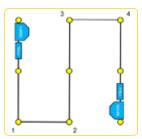
Design calculations

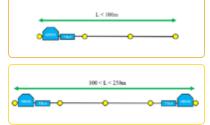
We have a special program for calculating our lifelines. It is available 24/7; please enquire for your identifiers.

INSTRUCTIONS & EXAMPLES OF INSTALLATION

		ABS55	TSL4
<u>L</u> .	0 < n ≤ 2	1	1
	3 < n ≤ 5	2	2
	0 < L < 100 M	1	1
	100 < L < 250M	2	2





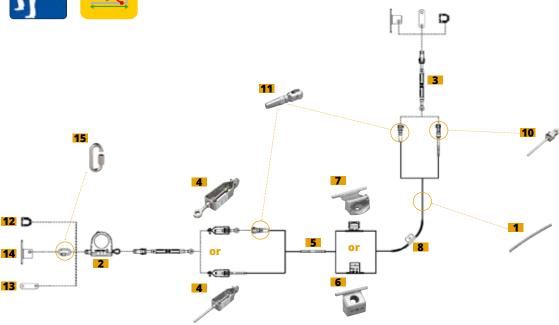














Cable

Stainless steel, Ø8mm, 7x7 Integrated tape for improved traceability,



Energy absorber

WVABS55

Reduces the forces applied to the structure, Available in metal shell version (ABS55M).



Manual pre-tensioner

WV15L4

Allows tension at the end of the line with no special tools.



Manual tensioner/for crimp-

WVBATSL250/WVBATSL350

For adjusting the line tension. Integrated tension indicator.



Crimping sleeve

WVMAC02C8

For joining the cable. Crimper required.



Fixed intermediate piece

WVIFR90

For passing the glider without unhooking.



Mobile intermediate piece

\/\/|\/|F

For passing the glider without unhooking



Flexible angle piece



Flexible angle piece for façade

W/VANGELEX



Articulated clevis crimping end

WVES2

Lifeline end with crimping.



Manual end piece

WVEC

Manually mounted on the end of the cable.



Anchor ring

WVPEXAF)

End anchor. May also be used as an anchor point.



Terminal anchor

MALE>

End anchor.



T piece

WVT

Lifeline end. May be installed on concrete, steel or beam (fastening not included).



Quick link

WVA0001

For connecting the energy absorber and the T piece (optional).



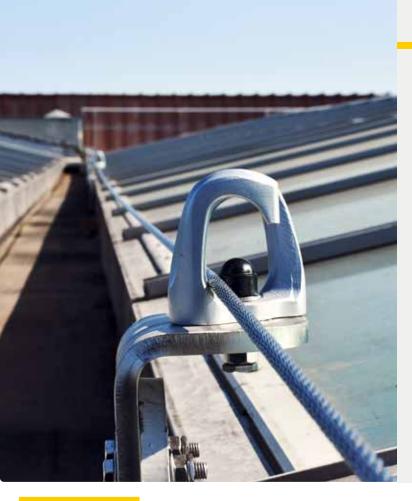
Safety signboard

WVPS

Installation at the system access. For identifying and monitoring the system.

Batiligne





Benefits

Comfort

Can be used with just a carabiner
Distance between anchors certified to 15 metres

Ease of use

Easy passage of anchors without taking off

Ease of installation

No special tools required for installing cable ends

Long life

Made in stainless steel for high corrosion resistance

Practicality

The post that is used at the start of the line can also be used as the end post, independently from the number of angles or intermediate pieces (Altifix or PST anchor)

Safety

Presence of a tension indicator for optimum cable adjustment

ACCESSORIES



Ready-to-install

For more simplicity, Batiligne is also offered as a kit:

15, 30 or 40 metres or with ends alone.



Continuity and safety

The worker moves along the system without taking it off, even at intermediate pieces.

SERVICES



Online tutorials

Go to our YouTube page to see our tutorials for use and installation!

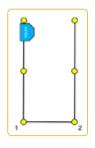


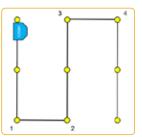
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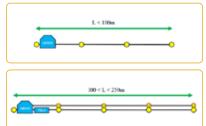
We have a special program for calculating our lifelines. It is available 24/7; please enquire for your identifiers.

INSTRUCTIONS & EXAMPLES OF INSTALLATION

		ABS55	TSL4
<u>L</u>	0 < n ≤ 3	1	0
	4 < n ≤ 6	1	0
	0 < L < 100 M	1	0
	100 < L < 250M	1	0 < 1





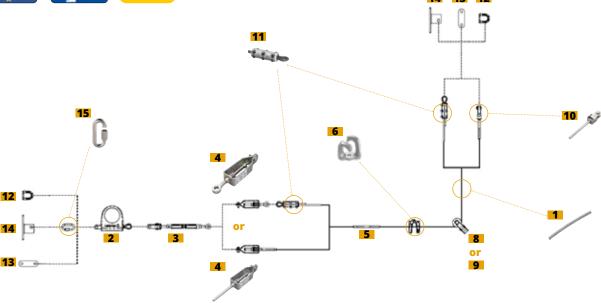














Cable

Stainless steel, Ø8mm, 7x7 Integrated tape for improved traceability,



Energy absorber

WVABS55

Reduces the forces applied to the structure, Available in metal shell version (ABS55M).



Manual pre-tensioner

Allows tension at the end of the line with no special tools.



Manual tensioner/for crimping

WVBATSL250/WVBATSL350

For adjusting the line tension. Integrated tension indicator.



Crimping sleeve

WVMAC02C8

For joining the cable. Crimper required.



Intermediate piece

WVBAINT2

Maximum 15 metres space between each anchor.



Manual end

WVBAEXT2

Assembled without special tools.



Angle piece

WYBAANG

For making variable angles.



Angle piece for façade

WVBAANGSA

For installing the piece on a salient or re-entrant corner on the façade. Adjustable for the degree.



Articulated clevis crimping end

W/VFS2

Lifeline end with crimping.



Manual end piece

WVEC

Manually mounted on the end of the cable.



Anchor ring

WVPEXAF)

End anchor. May also be used as an anchor point.



Terminal anchor

MALE)

End anchor.



T piece

WVT

Lifeline end. May be installed on concrete, steel or beam (fastening not included).



Quick link

WVA0001

For connecting the energy absorber and the T piece (optional).



Safety signboard

WVPS

Installation at the system access. For identifying and monitoring the system.





Benefits

Ideal for high installations, on the underside or when the clearance is not compatible with a cable system.

Versatility

Many possibilities of use: suspended, at a distance or in combination with a heavy fall-arrest connection (safety block) Can be installed on all types of structure and roof

Ease of use

Routing allows an indefinite number of paths and keeps the safety system continuous throughout all movements

Long life

Made in stainless steel for high corrosion resistance

High design

Carefully finished for complete integration into architectural constraints. Many RAL colours available.

Safety

Fall height reduced by the rigidity of the system

ACCESSORIES



RCF2 Roller glider

Made with several rollers to allow perfect movement regardless of the position used. This glider is ideal for intensive use.



RCF3 Glider for suspended access

Designed for travelling under load, allows great mobility during work when suspended.



Lateral movement



Movement above the rail

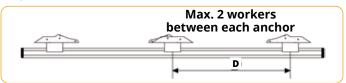


In ceiling position

INSTRUCTIONS FOR USE

Use only in a fall-protection system **D = 4 m** Suspended access

D = 2 m



SERVICES



Online tutorials

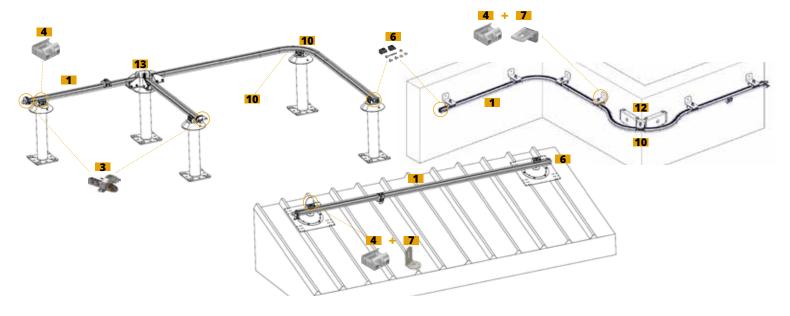
Go to our YouTube page to see our tutorials for use and installation!













Aluminium rail

Delivered drilled and milled. Available in lengths of 1, 1.5 and 3m.



Glider entry/exit

For installation at any point of the rail to allow the glider to be put in place.



Folding stop

For inserting the glider on the rail. Automatic closure.



Copper-aluminium rail anchor that makes removal easy. Allows free expansion of the rail.



Splice

For assembling two rail lengths.



Fixed stop

Locks the glider at the end and finishes the rail perfectly.



bracket

For mounting the rail on a façade with movement on the underside. Available in stainless steel.



Installation at the system access. For identifying and monitoring the system.



90° angles - lateral movement

Interior/exterior angle for lateral movement of glider.



90° angles - underside movement

Interior/exterior angle for movement on the underside of the glider.



Rail angle anchors

Standard angle anchors without offset.







Rail angle anchors

Mobile angle anchors with offset. For managing rail expansion.



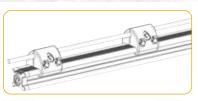


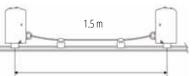
Routing: manual or powered

For changing directions. Available in 3/4 directions. Remote activation using a remote control for the powered version.

GOING FURTHER

For particular uses where the available anchors are spaced by more than 5 metres, we suggest combining our rigid Altirail system with a 10mm galvanised cable. This solution thus makes it possible to cover larger spans, providing the bearing structure to which the slings are fixed is capable of withstanding the required force. Work under tension possible.









Benefits

Innovation

Ideal solution for installations requiring a large fastening centre distance - 8 metre span

User comfort

Glider with plastic rollers mounted on bearings for perfectly fluid movement

Versatility

Fastening anchor adaptable to all structure thicknesses

Long life

Very strong 316 stainless steel glider and profile, suitable for aggressive and dusty environments

Safety

Glider with 2 safety hooks

Screws pre-coated with thread locker to prevent loosening

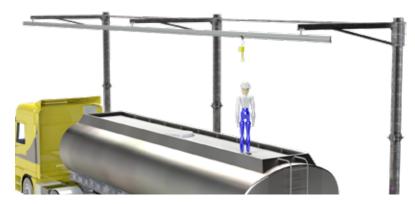
ACCESSORIES



RCLR Glider

The RCLR glider is permanently installed on the rail.

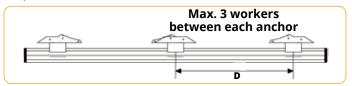
Because of its peerless movement fluidity, it makes it possible to move unhindered alone the whole rail span.



INSTRUCTIONS FOR USE

Use only in a fall-protection system Suspended access

D = 8 m D = 5 m



SERVICES



Online tutorials

Go to our YouTube page to see our tutorials for use and installation!

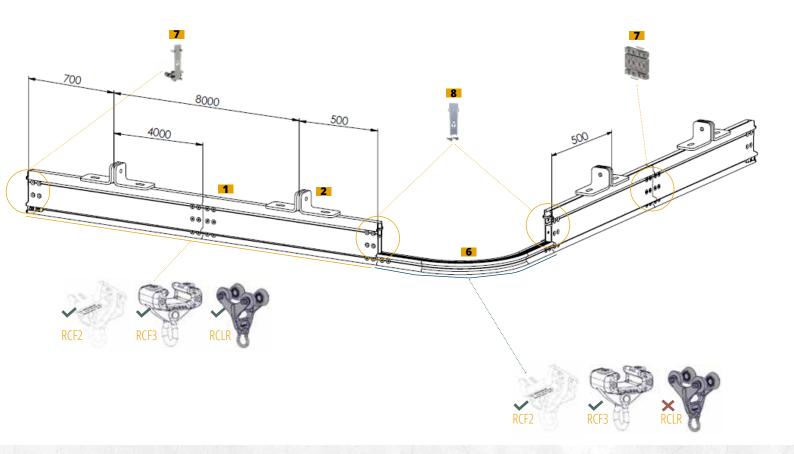














LR rail

May be cut or drilled if needed (ROUTP tool). Compatible with Delta Plus Systems RCLR, RCF2, RCF3. Length 4.40 m.



LR rail anchor

WVRSUPLR

Allows the LR rail to be turned along the line of the fall. Galvanised steel.



LR rail anchor

WVRSUPLR2

For fastening the LR rail perpendicular to the structure. Galvanised steel.



LR rail anchor

WVRSUPLR3

For fastening the LR rail parallel to the structure. Galvanised steel.



LR rail splice

For assembling two rail lengths.



90° angles - underside movement

WVRA90E2/RA90S2

Interior/exterior angle for movement on the underside of the glider.



LR rail end

WVRRBLR

Locks the glider at the end and finishes the rail perfectly.



LR rail angle end

WVRRBLR

For a perfect rail finish.



IR safety signboard

WVRPSLR

Installation at the system access. For identifying and monitoring the system.





Benefits

Innovation

Optimum safety for all types of angles from 0° to 180°

Ease of use

Easy change of angles:

- certified with absorber, connected to the sternal connector, for vertical use
- certified with and without absorber, for horizontal use

Modular

Allows indefinite paths thanks to routing, which allows safe continuous movement without unhooking

Versatility

Many possibilities of use (at the foot, on façades, overhead etc.) and ideal when the worker is at a distance from the device

High design

Carefully finished for complete integration into architectural constraints

Safety

Load capacity per glider: 150kg maximum (user and tools included). The simultaneous number of users between each anchor varies depending on the installation configuration of the system.

ACCESSORIES



RCBC Glider

This glider is fitted with multiple rollers for perfect movement, regardless of the position of

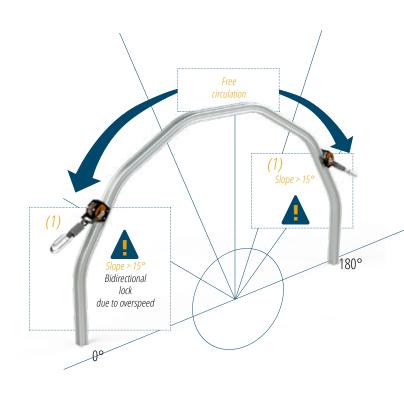
(1) Bidirectional centrifugal lock, which only activates when the operator needs it, by overspeed, regardless of the slope of the anchor.

SERVICES



Online tutorials

Go to our YouTube page to see our tutorials for use and installation!







Aluminium rail

Delivered drilled and milled. Available in lengths of 1, 1.5 and 3m.



Splice

WVREC

For assembling two rail lengths.



90° angles - lateral movement

WVRA90E/WVRA90S

Interior/exterior angle for lateral movement of glider.



660

Fixed stop

WVREXTF

Locks the glider at the end and finishes the rail perfectly.



90° angles - underside movement

WVRA90E2/WVRA90S2

Interior/exterior angle for movement on the underside of the glider.



Folding stop

WVRBE

For inserting the glider on the rail. Automatic closure.



bracket

WVREQG or WVREQI

For mounting the rail on a façade with movement on the underside. Available in stainless steel.



Rail angle anchors

WVRIAFS2SF

Standard angle anchors without offset.



Opening anchor

WVRSUP

Copper-aluminium rail anchor that makes removal easy. Allows free expansion of the rail.



Safety signboard

WVRPS

Installation at the system access. For identifying and monitoring the system.







Rail angle anchors

WVRIAS/WVRIAS2/WVRIAS2S

Mobile angle anchors with offset. For managing rail expansion.





Routing: manual or powered

WVRAIG3D/WVRAIG4D or WVRAIG3DM/WVRAIG4DM

For changing directions. Available in 3/4 directions. Remote activation using a remote control for the powered version.



Non-return system

WVRANTI

For locking the glider on a given area of the rail.



OPTIONAL

Special bends on request.





Benefits

Practicality

May be used simultaneously by 3 users placed 3 metres apart The dedicated glider can be connected at any point of the cable.

Ease of use

Easy installation of the glider, including with gloves

Versatile

May be installed on the most varied vertical structures

Long life

Made in stainless steel for high corrosion resistance

Safety

Presence of a tension indicator for optimum cable adjustment Load capacity: 125kg maximum (user and tools included)

ACCESSORIES



CMBV locking glider

The CMBV moves remotely through intermediate pieces, while providing unidirectional locking. It is smart and can be connected at any point of the cable.

Foolproofing is inserted on the glider to avoid improper use and to ensure locking in the event of a fall. EN-353-1 certified with textile absorber.



VLINE locking glider

The VLINE moves remotely on a single-span lifeline, while providing unidirectional locking.

It is smart and can be connected at any point of the cable.

EN 353-1 certified.

SERVICES



Online tutorials

Go to our YouTube page to see our tutorials for use and installation!



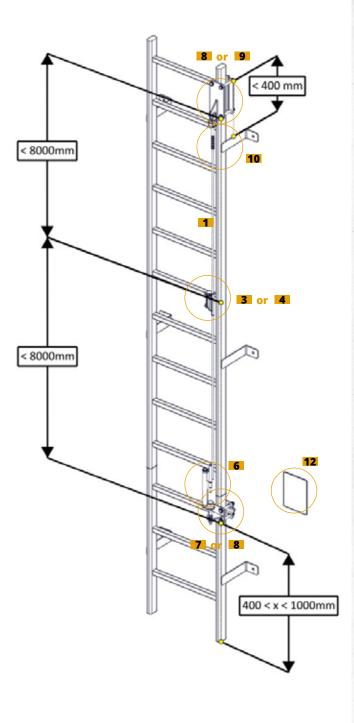














Cable

WVC18

Stainless steel, Ø8mm, 7x7. Integrated tape for improved traceability,



Fixed intermediate piece

WVIF\

Supplied with 3 fastenings sizes to adapt to ladder rungs.



Lifeline riser

WVPHR2

Makes it easier for the worker to move from ladder to roof.



Lower anchor

WVSHL

For fastening the lower end of the ladder. Compatible with different types of stile.



Upper anchor

WVSVH

For fastening the upper end of the ladder. Compatible with different types of stile.



Cable locking rings

WVBAG01/WVFSC8

For curves and direction changes. Removable or crimped version.



Bracket

WWSBF

For fastening on a concrete wall.



Mobile intermediate piece

WVIN

Supplied with 3 fastenings sizes to adapt to ladder rungs.



Lower end piece

WVEVB3

For pre-tensioning the cable.



Lower and upper anchor

WVSHL

For fastening the lower or upper end of the ladder. Can be adjusted for the post diameter.



Articulated clevis crimping end

WVES2

Lifeline end with crimping.



Safety signboard

WVPS

Installation at the system access. For identifying and monitoring the system.





Benefits

Fluidity

Perfectly fluid movement, both upwards and downwards

Ease of use

Simultaneous use of the system by 3 users placed 3 metres apart Certified with absorber with sternal connector, for vertical use

Practicality

May be installed directly on the ladder rungs

High design

Carefully finished for complete integration into architectural constraints

Safety

Load capacity: 150kg maximum (user and tools included)

ACCESSORIES



RCBV Unidirectional locking glider

The versatile RCBV glider can be used on structures with angles of up to 15° lateral and 45° frontal

When any tension is applied downward, the glider locks automatically in its position.

SERVICES



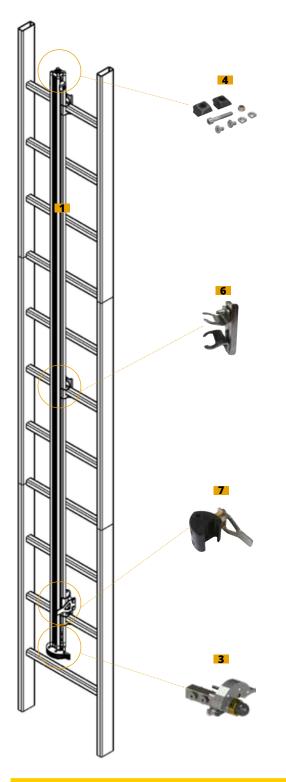
Online tutorials

Go to our YouTube page to see our tutorials for use and installation!











Aluminium rail

Delivered drilled and milled. Available in lengths of 1, 1.5 and 3m.



Folding stop

For inserting the glider on the rail. Automatic closure.



Splice

For assembling two rail lengths.



Foolproofing

Prevents errors while putting the glider in place.





Glider entry/exit

For installation at any point of the rail to allow the glider to be put in place.



Fixed stop

Locks the glider at the end and finishes the rail perfectly.



Mounting bracket

Adapts to the dimensions and centre distances of ladder rungs.



Safety signboard

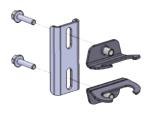
Installation at the system access. For identifying and monitoring the system.



For changing directions. Available in 3/4 directions.

PRINCIPLE FOR RAIL ASSEMBLY ON THE LADDER WITH THE RSUPECH ANCHOR







Ladderrail





Benefits

Fluidity

Perfectly fluid movement, both upwards and downwards

Ease of use

Simultaneous use of the system by 3 users placed 3 metres apart Certified with absorber with sternal connector, for vertical use

Practicality

The glider may be inserted and removed at any point of the

Asymmetrical rail profile to allow glider insertion in the correct direction.

High design

Carefully finished for complete integration into architectural constraints

Safety

Load capacity: 150kg maximum (user and tools included)

ORIGINS

Our teams went to meet telecoms and wind farm workers.

Ladderrail came out of collecting and analysing their requirements and is THE solution for safe working at very



ACCESSORIES

WVLDRS Unidirectional locking glider

The versatile LDRS glider can be used on structures with angles of up to 15° lateral and 45° frontal.

When any tension is applied downward, the glider locks automatically in its position.

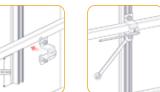
SERVICES



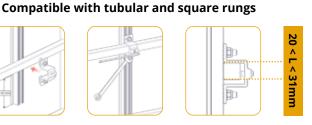
Online tutorials

Go to our YouTube page to see our tutorials for use and installation!

LADDER COMPATIBILITY

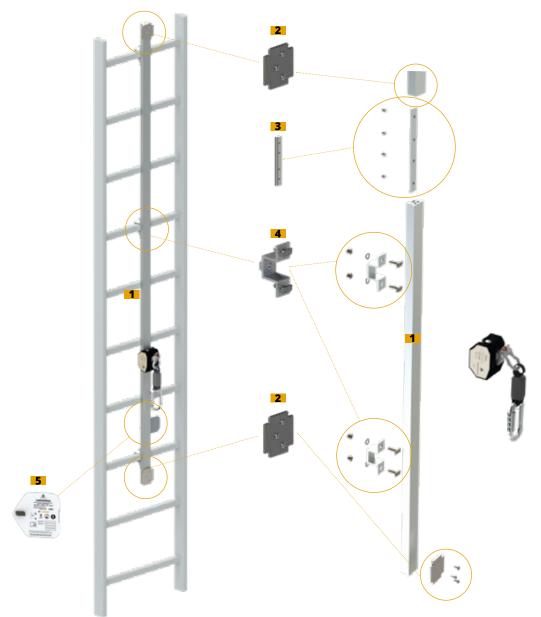




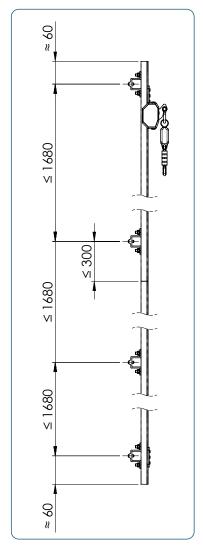








RAIL ASSEMBLY PRINCI-PLE



LIST OF PARTS



Aluminium rail Length: 3m.



Locks the glider at the end and finishes the rail perfectly.

Fixed stop



Splice For assembling two rail lengths.



Mounting bracket Adapts to the dimensions and centre distances of ladder rungs.



Safety signboard

Installation at the system access. For identifying and monitoring the system.

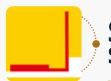
Collective protection

Selection assistance: guardrails



1

DEFINE YOUR INTERFACE



Selfsupporting



Self-supporting



Waterproofed substrates



On slab
D shoe with
insulation



On slab D shoe without insulation



On deck BE shoe

FVORE:



Steel deck



Steel deck



Parapet



Flat surface mounting EVOVX



Offset mounting without off-



Offset mounting with offset



Uninsulated parapet EVOZx



Insulated parapet EVOZx

2 SELECT YOUR UPRIGHT



Angled EVOXC



3 SELECT YOUR FINISH







Powder coated **EVOXX**L



Benefits

Versatility & speed of installation

The simplest solution to install in the market

Our collective protective equipment has been designed to keep you safe. It has also been conceived to make its installation as intuitive and speedy as possible.

With the help of a number of methods, we have succeeded in dramatically cutting the installation time of our railings.



Smart weighting blocks

Lightweight: weight 12.5 kg

Ergonomic: two handles give an easy hold, while taking care of the fitter's spinal column

Optimised grasp: the centre of gravity is located very close to the worker's body.



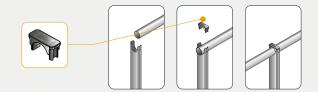
Easy and intuitive installation

EVO accessories offer the guarantee of simple and fast assembly

Ease of installation: rails and mid rails fit easily

Extremely lightweight: thanks to a strategic choice of materials used and smart parts design

Intuitive: our EZclip plug makes it easy to install the upper rail. Clip, screw and you're done!



Versatility & personalisation

A wide range of railings to adapt to all types of configuration

Adaptability: 7 fastening possibilities are available, with a choice of 3 uprights (straight, angled, folding)

The **design** tones perfectly with the building architecture thanks to the many paint finishes available

Collective protection

Guardrails: common list of parts



COMMON PARTS



Ø45 mm rail with reduction 3000 mm long



Ø35 mm mid rail with reduction 3000 mm long



Ø45 mm rail plug



Ø35 mm mid rail plug



EZclip plastic plug



Ø45 mm rail angle



Ø35 mm mid rail angle



Ø45 mm rail and Ø35 mm mid rail aluminium angle



Ø45 mm rail wall termination



Ø35 mm mid rail wall termination



Ø45 mm rail and Ø35 mid rail aluminium wall termination



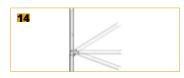
Straight upright

WV8200535 - height 535 mm WV8200760 - height 760 mm WV8200885 - height 885 mm WV8201010 - height 1010 mm WV8201105 - height 1105 mm WV8201182 - height 1182 mm



Angled upright

WV8200565C - height 565 mm WV8200855C - height 855 mm WV8200985C - height 985 mm WV8201005C - height 1005 mm WV8201165C - height 1165 mm



Folding upright

WV8201010F - height 1010 mm aluminium articulation WV8201105F - height 1105 mm aluminium articulation

FASTENERS



Hex socket screw M08X10i DINI913



Self-drilling screw Neck and sealed wash- washer er 6x25 Z0SYSBVHF06025



ZOSYSBRC001



Toe boards **Self-drilling**

screw

Perfix TH st st 4.8



Self-drilling screw

Perfix TH st st 4.8



Self-drilling screw

Perfix TH st st 4.8 ZOSYSBVHF48050









*NTC 2018 *DIN EN 13 374 please enquire

BASES



Flat base



Surface mounted base Aluminium



Surface mounted base with 60 mm offset

Aluminium



Surface mounted base with 95 mm offset

Aluminium - special part number



Surface mounted base with 116 mm offset

Aluminium - special part number



Z shoe for uninsulated parapet

Aluminium



Z shoe for insulated parapet < 70 mm

Aluminium WV813070



Aluminium



Z shoe for insulated parapet < 130 mm

Aluminium



Z shoe for insulated parapet < 160 mm

Aluminium



D shoe post with insulation

Height to measure - Special part number



D shoe post without insula-

Height to measure - Special part number



BE shoe post

Height to measure - Special part number



D/BE shoe waterproofing sleeve



Perpendicular plain deck railing base - 250mm corrugation



Parallel plain deck railing base - 250mm corrugation



Perpendicular plain deck railing base - 333mm corrugation

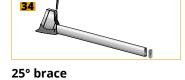


Parallel plain deck railing base - 333mm corrugation



Straight Self-supporting straight and folding

brace



Angled self-supporting version



Base + brace, 32° bend to the right



Base + brace, 32° bend to the left

37

Locking wedge



Plastic pedestal, 12.5 kg 3 pedestals per brace (French standard)

Collective protection

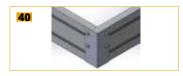
Guardrails: common list of parts



TOE BOARD



Toe board Length 3000 x 100 x 9 mm WV840000



External toe board angle kit
Height 100 mm



Straight toe board fittingHeight 150 mm
WW840005



Toe board anchor for railing, flat and on plain steel deck

Height 100 mm WV841001



Toe board anchor for railing with offset plate and water-proofed deck

Height 100 mm WV844001



Toe board anchor for self-supporting railing Height 67 mm WV847001

ACCESSORIES

1000 mm railing and ladder joining kits

Practical: adapt to all types of railing and ladders in the market



1000mm railing and ladder joining kit
Aluminium - fasteners and com-

panion plates included



1000mm railing and ladder joining kit

Plastic - fasteners and companion plates included

Gate

Safety: the gate closes automatically to keep the users safe



Gate kit for 25° angled self-supporting railing

Height 580mm and 1100 mm (elements available separately)



Gate kit for straight self-supporting railing

Height 580mm and 1100 mm (elements available separately)

Selection guide: gate

Railing	Upright	Description		
580 mm high gate kit				
Self-supporting	Straight	580 mm high gate kit for straight self-supporting railing		
	25° angle	580 mm high gate kit for 25° angled self-supporting railing		
All but self-supporting	30° angle	580 mm high gate kit for angled EVO® railing		
	Straight	580 mm high gate kit for straight EVO® railing		
1100 mm high gate kit				
All types	30° angle	1100 mm high gate kit for straight self-supporting railing		
	Straight	1100 mm high gate kit for angled self-supporting railing		







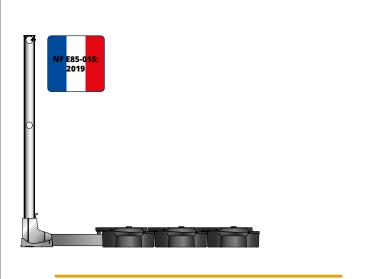




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Self-supporting guardrails







Bases



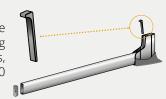
Straight braceFor straight railing version



25° brace For angled railing version

Fasteners

The base is fastened to the upright by means of the locking wedge and concrete blocks, using Perfix TH st. st 4.8 x 50 self-drilling screws.

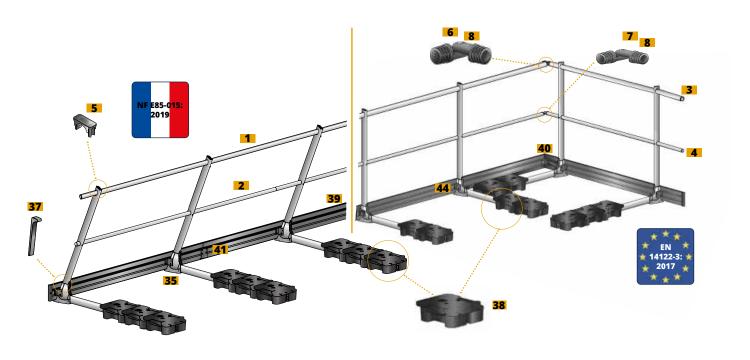


Installation configurations





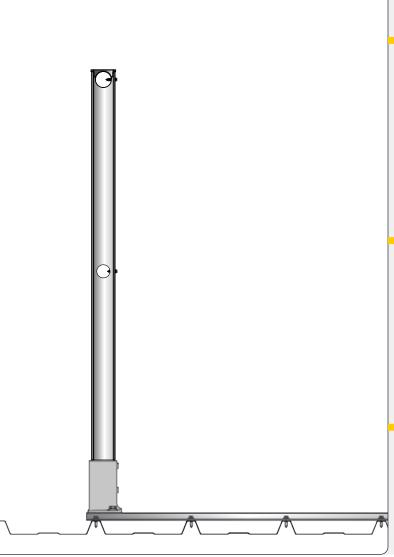




Guardrail on steel deck







Bases







Perpendicu- Parallel lar base - 250 base - 250 mm corruga- mm corruga- mm corrugation tion tion tion tion
Fasteners not included Fasteners not included Fasteners not included

Perpendicu- Parallel lar base - 333 base - 333

Fasteners

Fastened by 6x25 self-drilling screws and neck washers

Corruga- tions	Configuration	Quantities
250 mm	Parallel to deck	8 screws
	Perpendicular to deck	
333 mm	Parallel to deck	6 screws
	Perpendicular to deck	

Configurations





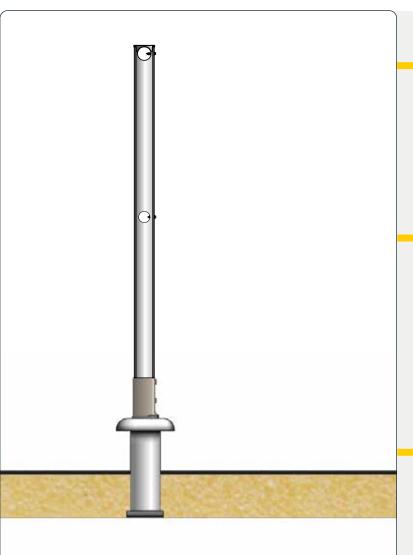




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Guardrail on waterproofed slab





Bases





D shoe post with insulation

D shoe post without insulation

Fasteners

The plate is fastened to the slab (uncracked C20/25 concrete) via 2 dowels (not included). Select from:

- chemical solution such as chemical dowels with injection mortar, HIT-HY 200-A
- mechanical solution of the HSA M10x98 35/25/- segment dowels type



Installation configurations







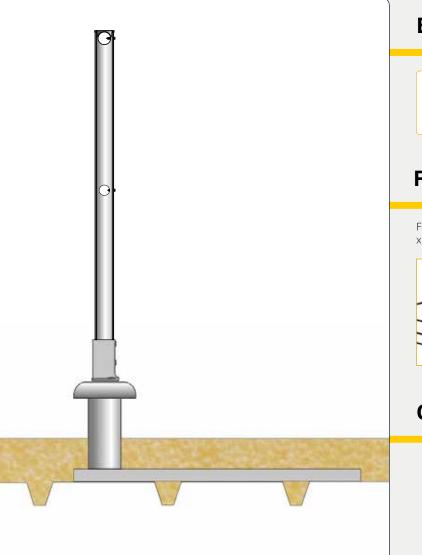


Guardrail on waterproofed deck









Bases

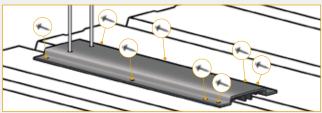


BE shoe post

Not including fastening to deck

Fasteners

Fastening of bases by 8 self-drilling screws and sealed washers, 6

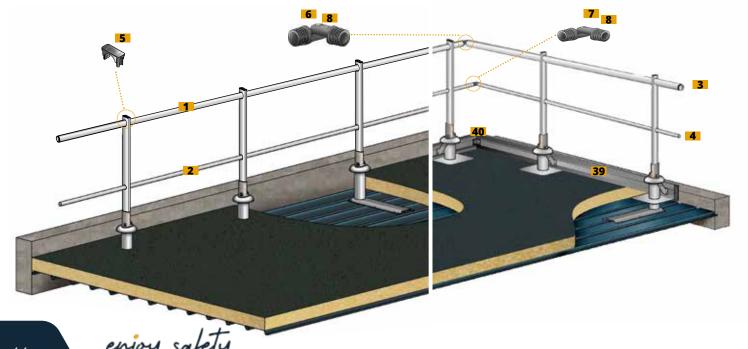


Configurations











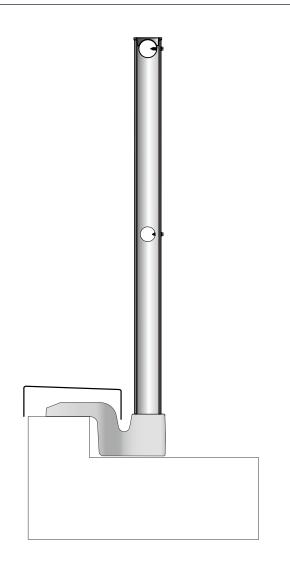












Bases









Uninsulat- Insulated ed parapet parapet, Fasteners not **up to** included **70mm**

Insulated parapet, up to 100mm

Insulated parapet, up to 130mm

Insulated parapet, up to 160mm

included

Fasteners not Fasteners not Fasteners not included included included

Fasteners

Fastening possible on 4 types of substrate:

- on concrete parapet with 1 or 2 dowels
- on concrete parapet with insulation: 3 models up to 160 mm insula-
- on metal parapet: 6 to 8 self-drilling screws
- on wooden parapet: 2 or 3 M10 lag screws.

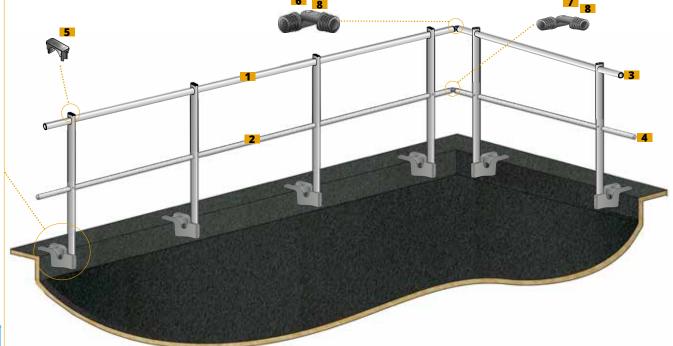
Installation configurations







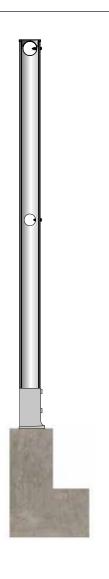




Flat and surface-mounted guardrail







Bases







Surface

mounted





Flat base **Surface** Fasteners not mounted included

base with- base with

out offset 60 mm Fasteners not offset

Surface mounted base with 95 mm offset

mounted 116 mm offset

included

Fasteners not Fasteners not included

included

base with

Surface

included

Fasteners

The plate is fastened to the slab (uncracked C20/25 concrete) via 2 dowels (not included). Select from:

- chemical solution such as chemical dowels with injection mortar, HIT-
- mechanical solution of the HSA M10x98 35/25/- segment dowels type

Configurations



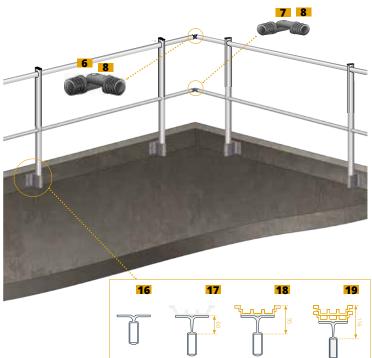




Straight upright

Folding upright





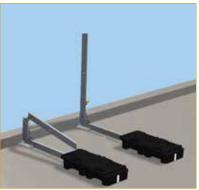




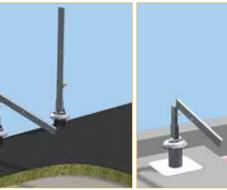


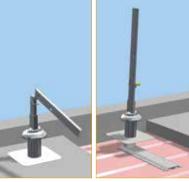


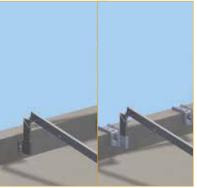


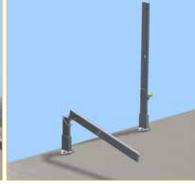












Benefits

The folding system for EVO railings can be installed on our entire collective protection range.

It protects the appearance of a building by folding down and being invisible when the edifice is seen from the outside. This module can be folded by a single worker up to 12 metres and can thus make the roof safe in no time for workers.

Versatility

One system, three positions

Folded: aesthetic and unobtrusive, the railing is no longer visible from the outside

Intermediate: the zone to be made safe is visible and demarcated. The risk of tripping is reduced and the railing remains invisible from the

Straight: operational position, where the system keeps workers safe.

Easy handling

Rails and mid rails in 3 metre lengths supplied in bundles of 7 units

Practical

A folding gate system is also available in the corners as an option

ONE SYSTEM, THREE POSITIONS







NB

While putting in place or folding the system, when the railing is in the intermediate position, lifeline safety is mandatory to keep workers' movements safe.

WORKING









Collective protection









Benefits

Protected waterproofing

No need for drilling the roof.

SafetyEach upright is stabilised by a brace with a sole under the base and two plastic pedestals.

Practical

A gate system is also available for making opening roof lights safe.

Design and personalisation

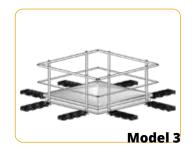
The solution may be coated for perfect integration into the receiving

DIMENSIONS

Models	Dimensions of roof light	Dimensions of railing
1	1200 x 1200 mm	4 uprights: 1500 x 1500 x 1180 mm
2	1700 x 1700 mm	6 uprights: 2000 x 2000 x 1180 mm
3	2200 x 2200 mm	8 uprights: 2500 x 2500 x 1180 mm















Grids for rooflights and translucent elements



Benefits

Roof lights

Versatility

Adapts to all roof light openings: universal bar system.

Practical

Fastened directly to the flat part of the metal frame (min thickness 12/10ths).

Ease of installation

Installed horizontally from the outside, inside the opening, after the dome is opened or disassembled.

Safety

Fixed fall-protection grating and fastening brackets (10/10th thick) in galvanised steel. $90 \times 90 \text{ mm}$ mesh.

Translucent elements

Versatility

Adapts to all configurations.

Practical

Fastened directly from the outside on the steel deck.

Ease of installation

The grating can be cut and adapted directly on the site.

Safety

1200 joules resistance.

Fall-protection grating and fastening brackets in steel.

ROOF LIGHTS: UNIVERSAL BAR SYSTEM







TRANSLUCENT ELEMENTS: FASTENING



Fastening on the steel deck corrugation adjacent to the translucent element

The grating dimensions are to be defined by:

- = width of translucent element
- **e** = centre distance of corrugations
- length to cover

1200 joules resistance

Tested according to the recommendations of MR72 of CRAM, and the test protocol of GIF (March 1997).

Ladder, accessories & PPE





Benefits

Long life

Made entirely in aluminium, alloy series 6000: an aesthetic and lightweight material that offers excellent resistance over time, even in aggressive environments

Enhanced rigidity

Stiles in 65 x 24 mm sections in extruded aluminium

Ease of installation

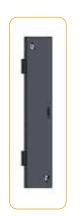
Clamp system for rapid fastening of elements with just one hand

VersatilityComplete range for a number of combinations to adapt perfectly to your site requirements

ACCESSORIES

Locking of access

Recommended to protect access to the ladder



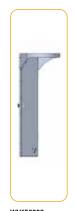
WV650000 Locking door system, hinges on



WV650001 Locking bar Intrusion delaying system



WV650002 Half locking door Symmetrical system, hinges on



WV650003 Full locking door Symmetrical system, hinges on

Parapet passage, gate & exits



WV6240250 250 mm landing step, 600 mm wide



500 mm landing step, 600 mm wide



Widened exit with parapet descent, width 650 mm, 800 mm & 1000 mm



WV623001 Symmetrical system, left



WV620000 Symmetrical system, left



WV6251100 Magnetic automatic closing gate, height 1100 mm. Available in height 580mm





Automatic closing gate



Ladder with safety cage



LIST OF PARTS



Ladders

Widened bar

WV6100xxx

Available in: 900 (3 rungs), 2100 (7 rungs), 3000 (10 rungs), 3900 mm (13 rungs)



Plug 725Y5612000



Ladder connectors

WV611000

Fasteners supplied



Fastening on cladding

WV630003

Fasteners supplied



Standard fastening brackets

WV63000

7

Length: 2000 mm Delivered in pairs



Adjustable fastening brack-

WV630003

Length 237 to 404 mm Delivered in pairs



Longitudinal bar Longitudinal bar joints

5472100

WV6482100/Z2SYS6472100

Kits of 5 longitudinal bars: length 2100, 3000, 3900mm - Kits of 8 longitudinal bars: length 2100 mm - Single: length 2100 mm



Bars

WV646450

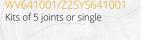
Standard bar, 450 mm/Widened bar, 600 mm/Flight change bar/Folding landing bar (fasteners included)



Folding rod

WV629000

Fastened to the ladder stile





Adjustable foot for parapet descent

WV625001

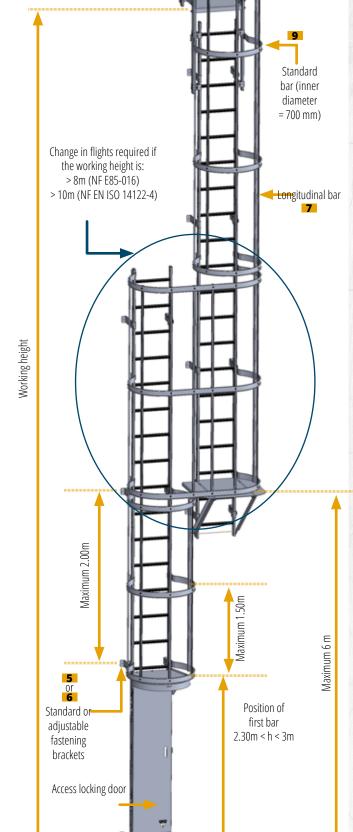
Up to 300 mm



Flight change reinforcement

WV648001

Helps climbing a ladder with a flight change



Ladder, accessories & PPE





Benefits

Bases to support all types of technical equipment on roofs and terraces (solar panels, air-conditioning units, extractors, floors etc.).

Modular concept

Standard heights: 500, 800 and 1000mm + may be made to measure

Protected waterproofingThe bases are insulated by polyurethane foam and treated against corrosion by hot-dip galvanisation and closed by a flange ring

Design and personalisation

Other treatments may be added to the bases: powder coating, intumescent coating

Benefits

Special bases dedicated to the maintenance of lights. Once fastened to the sliding system, they can be reached easily for maintenance.

Practical

Easy maintenance that keeps workers safe

Protected waterproofing

Self-supporting base that is independent of the waterproofing complex



Benefits

Structure designed to hold dishes up to 1200 mm in diameter. Entirely independent, can be installed anywhere.

Modular concept

Possible structure lengths: 2, 3 or 5 linear metres

Protected waterproofing

Self-supporting base that is independent of the waterproofing complex

Ease of installation

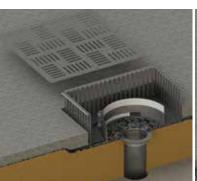
Totally modular to suit the configuration of the structure



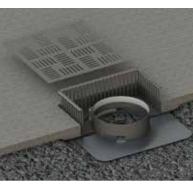


Supports, embellishments & waterproofing accessories









Benefits

The DEBIT-CO® flow limiter regulates the flow in rain water outlets by ensuring a regular but gradual outflow of water into the sewage system. This accessory is placed directly at the rain water outlet on the roof.

Versatility

Adapts to all types of rain water outlets on roofs and terraces, with diameters up to 230 mm (larger diameters available to measure)

Protected waterproofing

Elastomer waterproofing, or with a synthetic membrane (PVC, TPO etc.) or with an aluminium plate (gravel board as an option)



Benefits

Tailored and independent screen structure dedicated to cladding and protecting roof equipment.

Versatility

Protects, embellishes and clads

Protected waterproofing

Self-supporting base that is independent of the waterproofing complex

Design and personalisation

This personalised screen structure adapts perfectly to your architectural requirements

Benefits

These ladder hooks are practical, cost-effective and versatile, and can be installed on types of structure without any waterproofing connection

Versatility

Allows you to directly hang all types of ladder

Modular concept

Fastening on all types of roofing or concrete façades, with or without an offset



Ladder, accessories & PPE



1 HARNESSES

HAR22HA

Freedom of movement & intuitive donning

Harness with two fall-arrest attachment points (dorsal and sternal)
5 adjustment buckles, 3 of which are automatic.

Integrated fall indicator Tested up to 150kg



HAR22X

The most lightweight harness in the market

Extremely light: the dorsal system is free from metal parts Adapts to all builds - Two-colour webbing, which shows that the harness has been put in place correctly Lateral plates and adjustment buckles with no metal parts Tested up to 150kg



2 SELF-RETRACTING FALL ARRESTER

AN13006C2

MEDBLOC 6m

25 mm polyester webbing Swivel with fall indicator For horizontal use Easy to carry and put in place Tested up to 128kg



AN106

MICROBLOC 1.80m

19.5 mm webbing with energy absorber Tested on sharp edges Horizontal use & factor 2 Tested up to 140kg



AN18020T

WIDE PROTECTOR 20m

Galvanised steel cable with integrated energy dissipator Fall indicator Inertial locking system Tested up to 150kg



AN14006T or 8T

PROTECTOR TETRA 6m or 8m

Webbing with energy dissipator and fall indicator Easy to carry and put in place Tested up to 100kg, horizontal



3 LANYARDS

AN203200ZD

2m lanyard

2m webbing lanyard fall arrester with energy absorber 1 double-acting connector 1 manucroche connector Tested up to 140kg



AN213200ZDD

2m lanyard

2m webbing double lanyard fall arrester with energy absorber 1 double-acting connector 2 manucroche connectors Tested up to 140kg



4 KITS

ELARA160V2

Ready-for-use fall arrester kit

Harness: 1 dorsal attachment point; integrated energy absorber 2m energy absorber lanyard & steel connector Tested up to 140kg Storage bag





Personal protective equipment

5 RESCUE

TC065 & TC066

Descender device

Rescue device with wheel Approved for 2 workers Automatic braking system Length: 300m max Tested up to 225kg Rope part no: TC066



TRA22

Telescopic tripod

Aluminium tripod adjustable from 1.20 m to 1.97 m Certified for 3 workers Adaptable to all types of surface



TRA102

Fastening plate

Aluminium fastening plate for hoist and Protector Elevator



6 ACCESSORIES

GRANITEWIND

Safety helmet

Ventilated safety helmet Lightweight and compact Rotor tightening system Integrated chin strap



HA203FS

Pair of femoral anti-compression straps

Adaptable to all types of harness by placing on the lateral

Easy and speedy installation



TC008

Storage bag in PVC 42L

PVC fabric bag for storing & protecting equipment Possible extension: 10L Dimensions: 30x65 cm









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