

Permanent **fall-protection** systems

DELTAPLUS

enjoy safety

www.deltaplus.eu

Experience & innovation to keep you safe

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Anchors & anchor points

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

Horizontal lifelines

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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
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Collective protection

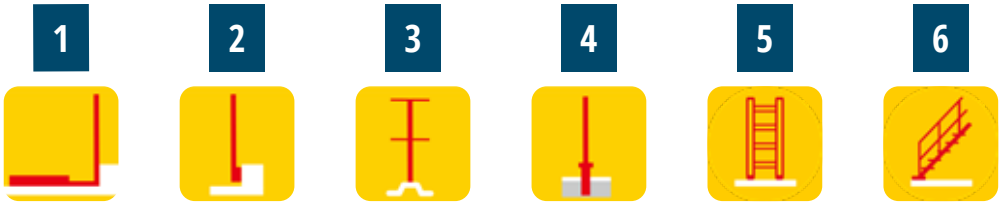
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Ladder, accessories & personal protective equipment

P. 50-51 Ladder with safety cage
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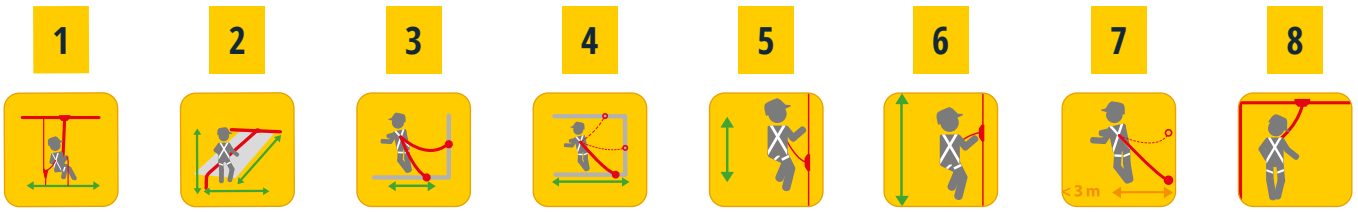


Collective protection Types of solution

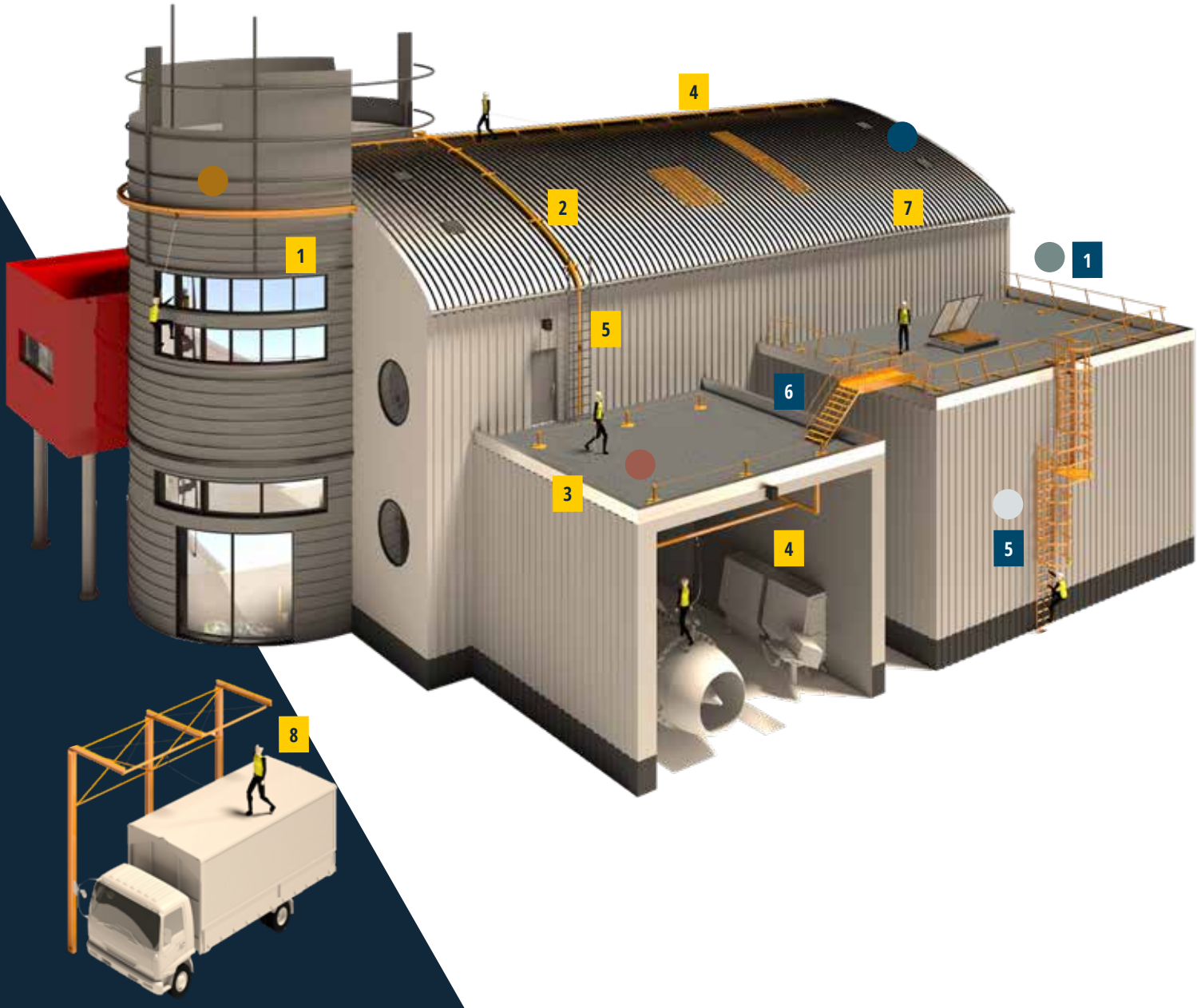


1. Self-supporting railing
2. Railing on parapet
3. Railing on steel deck
4. Railing on waterproofed slab/deck
5. Ladder
6. Pathways

Personal protection Safe movements



1. Extensive horizontal movement, suspended access and/or access under tension possible
2. Extensive horizontal or vertical movement or on angled plane
3. Horizontal movement
4. Continuous horizontal movement
5. Vertical movement
6. Extensive vertical movement
7. Limited horizontal movement (below 3 m)
8. 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.

1 **Available clearance**

Distance between the structure on which the worker is working at a height and the nearest obstacle (ground, balcony etc.)

2 + 3 **Required clearance**

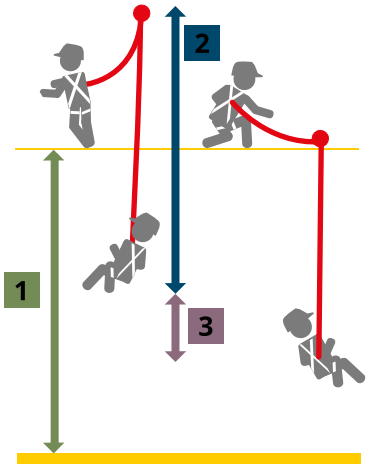
Minimum distance required for the worker to fall with no risk of colliding with the nearest obstacle.

LEGEND

1 Available clearance

2 Length of the line
+ energy absorber extension
+ worker's height

3 Safety distance (1m)

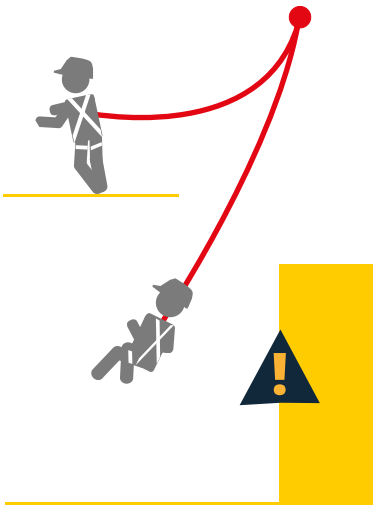


Pendulum effect

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.

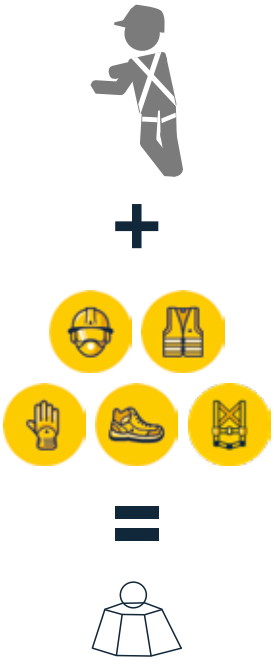


Impact force

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.



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 **49 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.



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.



Integrated design and manufacturing

A complete safety range

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

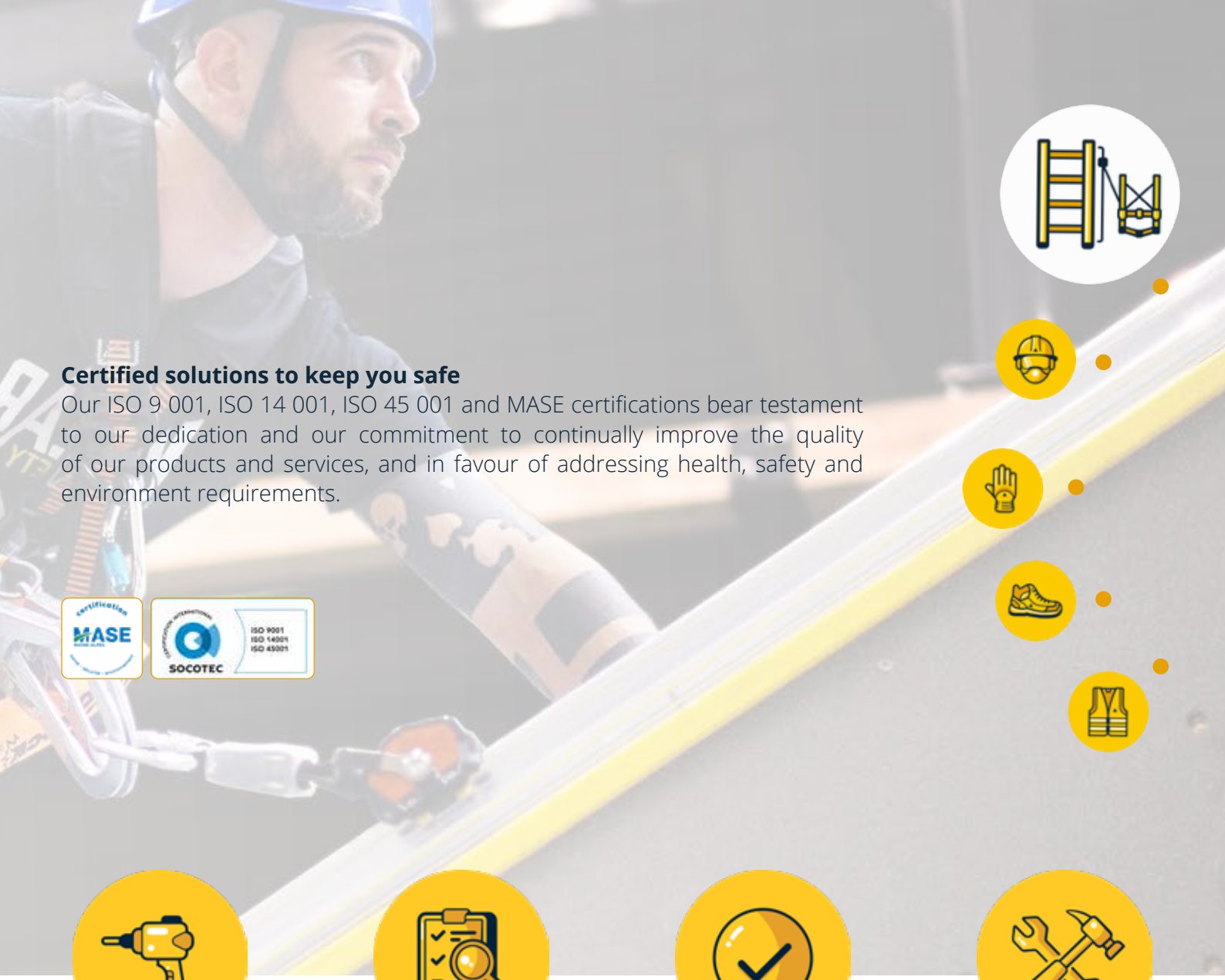
As part of our continuous search for optimum quality, our products are tested and certified to applicable standards.
Our products undergo in-depth testing in our own quality control laboratory before they are certified by notified independent testing bodies.



Support

Closeness to users

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.



Certified solutions to keep you safe

Our ISO 9 001, ISO 14 001, ISO 45 001 and MASE certifications bear testament to our dedication and our commitment to continually improve the quality of our products and services, and in favour of addressing health, safety and environment requirements.

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.

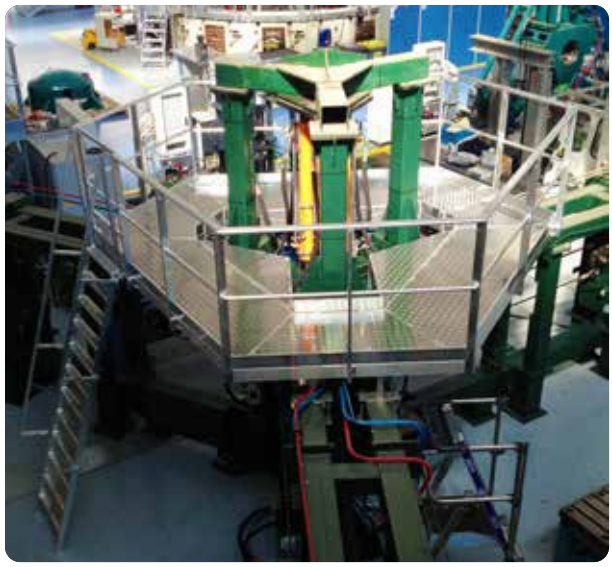
Our **know-how** in the areas of **production** and assembly, combined with our **in-house design department**, allows us to **design tailored solutions that are adapted to your expectations and working requirements**, in compliance with **applicable standards**.

Walkways with non-slip floors
Designing of tailored walkways (on supports 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 fall-protection rails suitable for slopes ranging from 45 to 75°, for all types of support





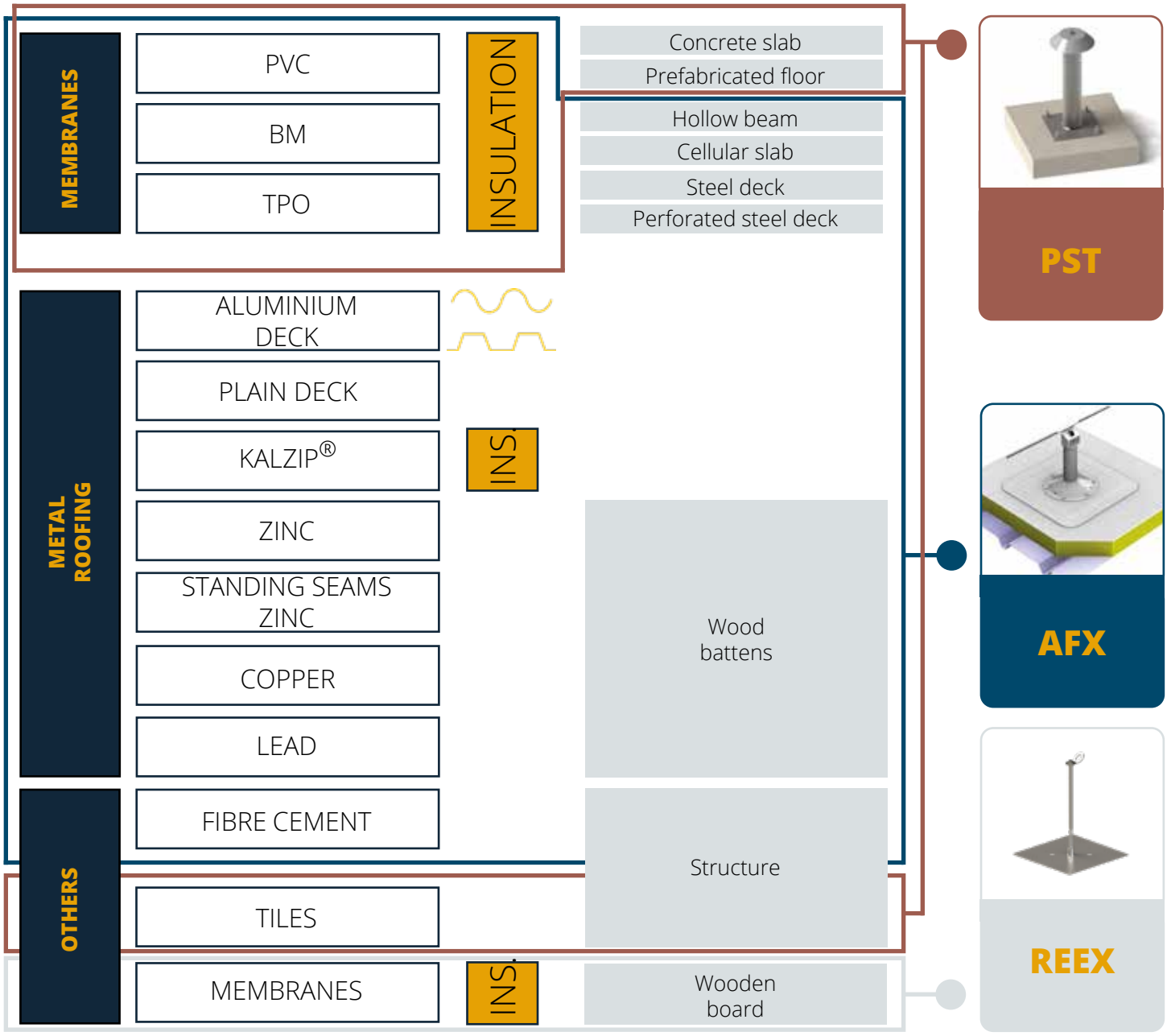
Gantries

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





1 DEFINE YOUR SUBSTRATE



Legend

- 1 Types of structure & waterproofing
- 2 Roofing
- 3 Optional insulation
- 4 Fastening supports
- 5 Interfaces

Selection guide: systems

2 SELECT YOUR SYSTEM

Horizontal safety



ALTILIGNE



BATILIGNE



ALTIRAIL



ALTIRAIL LR

Angled safety



COMBIRAIL

Vertical safety



VERTILIGNE



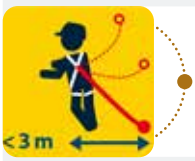
VERTIRAIL



LADDERRAIL

3 FOR SAFETY IN A DEMARCATED AREA

Local safety





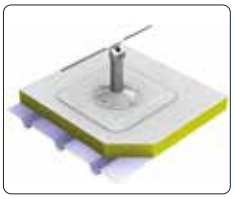
Anchor points

- **STRUCTURE**
  - CONCRETE
    - ANOV
    - ANFIX
  - STRUCTURE
    - On post
      - ANOP
    - directly on the structure
      - ANOV
      - PEXAFX
    - On tiled roofs
      - BWOOD
- **LIGHTWEIGHT AND OTHER ROOFS**
  - METAL ROOFS
    - BFIX
    - AFXBACPA
  - MEMBRANES
    - Wooden board
      - REEX

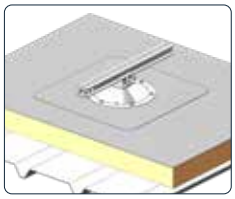
Waterproofed & metal decks

PVC OR BITUMEN

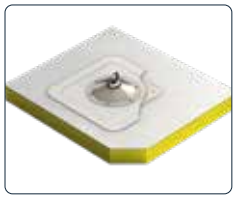




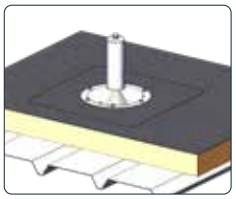
Lifeline anchor
WVAFXPVC



Rail anchor
WVRAFXPVC



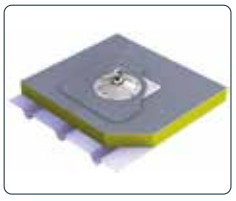
Anchor point
WVAFXPVCPA



Lifeline anchor
WVAFXBM



Rail anchor
WVRAFXBM

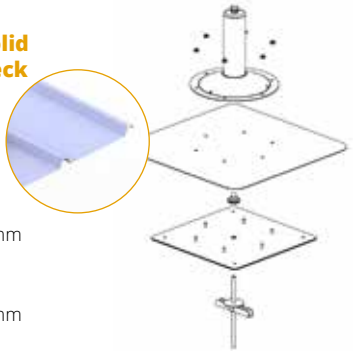


Anchor point
WVAFXBMPA

Solid steel deck | Concrete slab | Prefabricated wide slab | Perforated steel deck

Fastening kit
WVKVBSEx

Solid deck



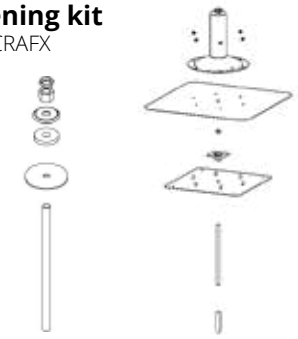
WVKVBSE1
0 < thickness of insulation < 130 mm

WVKVBSE2
100 < thickness of insulation < 230 mm

WVKVBSE3
200 < thickness of insulation < 330 mm

Important: the reinforcement kit (WVKVRBAC) is required for fastening end and angle anchors for horizontal lifelines

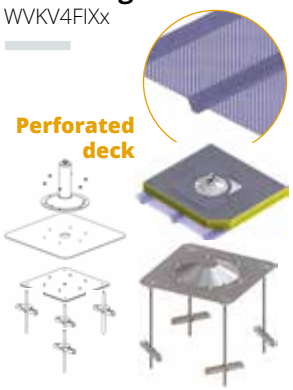
Fastening kit
WVANCRAFX



Important: the reinforcement kit (WVKVRBAC) is required for fastening end and angle anchors for horizontal lifelines

Fastening kit
WVKV4FIXx

Perforated deck



Available in 130, 230 or 330 mm

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

Scan the QR code to see the installation video

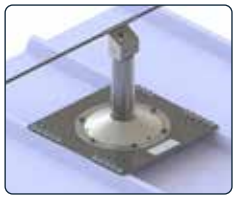
BM **PVC**

enjoy safety.

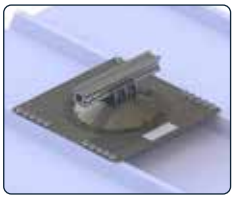


STEEL DECK

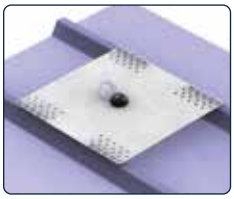




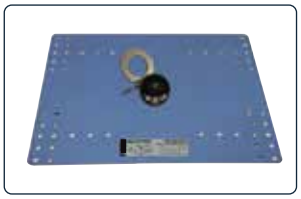
Lifeline anchor
WVAFX2FR
Special centre distances:
WVAFX2ES or WVAFX2ZOI



Rail anchor
WVRAFXST
Special centre distances:
WVRAFXSTES or specific



Anchor point
WVAFXBACPA
Special centre distances:
WVAFXBACPAES or specific



Anchor point
WVAFXBACOPA
(dedicated to Ondulit steel roofs)

Standard steel deck

Fastening kit
WVKVBAC

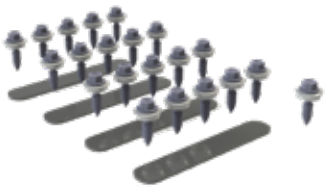


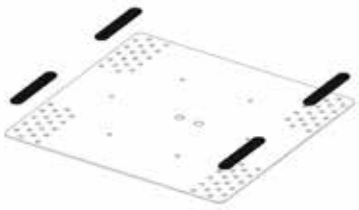
x 4

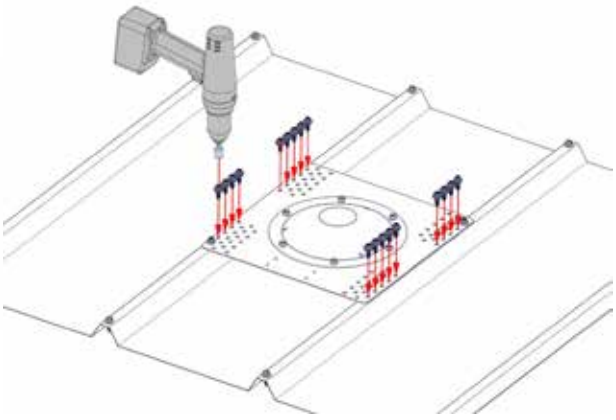
x 20

Thickness ⩾0.6mm

Fastening with self-drilling screws







- 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)
- 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

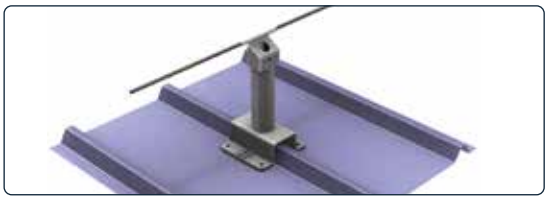
- Compatible with the following centre distances:

  193.25, 264 & 299 mm

STEEL & ALUMINIUM DECK



Steel deck



Lifeline anchor
WVAFX1





Ladder anchors and supports
WVBFXT & WVBFXTC





Ladder anchors and supports
WVBFXS & WVBFXSC

- Compatible with:

Metal plates of the cold profile type

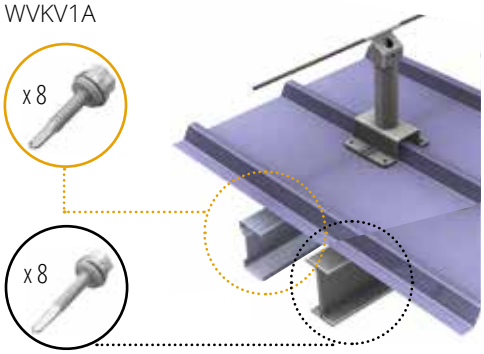
L > 50mm; thickness > 1.5mm

Min. metal plate: IPN or UPN 80

L > 50mm; thickness > 1.5mm

Cold profile metal plate or IPN/UPN 80

Fastening kit: cold profile metal plate
WVKV1A



Fastening kit: IPN or UPN 80
WVKV1M

- 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

Aluminium





Ladder anchors and supports
WVBFXAT & WVBFXATC
WVBFXAS & WVBFXASC

Scan the QR code to see the installation video

- 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)

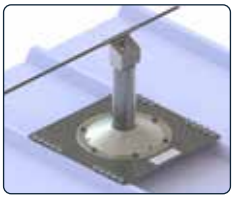
- Fastening kit included



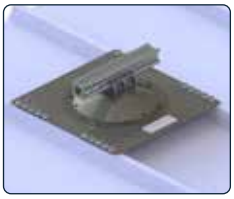
ALUMINIUM



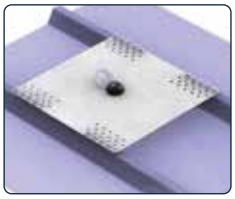
Aluminium



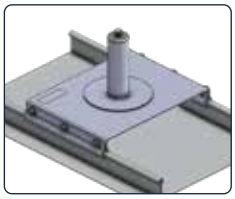
Lifeline anchor
WVAFX2FR



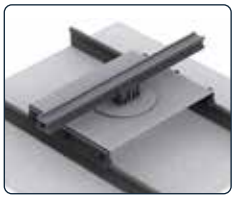
Rail anchor
WVRAFXST



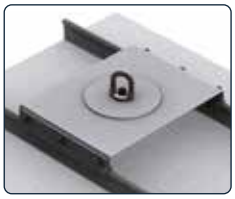
Anchor point
WVAFXBACPA



Lifeline anchor
WVAFXKAL1



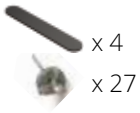
Rail anchor
WVRAFXKAL



Anchor point
WVAFXKAL2

Sinusoidal

Fastening kit
WVKVBACALUS



Thickness ⩾ 0.9mm

Trapezoidal

Kit de fixation
WVKVBACALU





- 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

ZINC & COPPER





Lifeline anchor
WVAFXZN

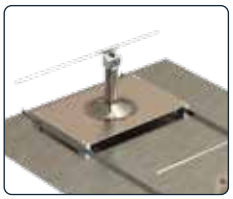


Anchor point
WVAFXZNPA



Rail anchor
WVRAFXZN





Lifeline anchor
WVAFXZNJD



Anchor point
WVAFXZNJDPA

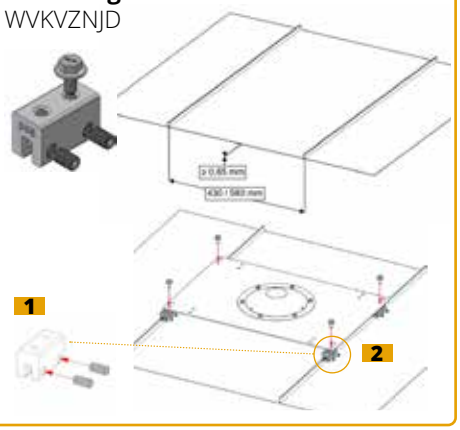
Wooden roofs

Fastening kit
WVKVZN



Wooden roofs

Fastening kit
WVKVZNJD



- 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

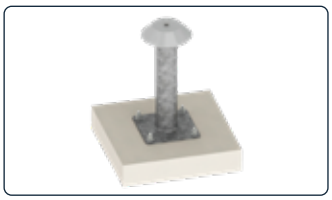
Scan the QR code to see the installation video

Other types

CONCRETE







Standard post
WVPST2



Square post
WVPSTC



Anchor ring
WVANOV





Anchor points
WVPLFIXVI (St. st) & WVANFIX

Gamme PST :
WVPST2 (round) 480mm
WVPST250 (round) 250mm
WVPSTC (square) 500mm
WVPSTSPE tailor-made

Fastening kit
WVANCRM12
Ø12mm fasteners
HILTI HVU M12



x 4

Waterproofing connection accessories:

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



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

Fastening kit
WVANCRM12
Ø12mm fasteners
HILTI HVU M12



x 1



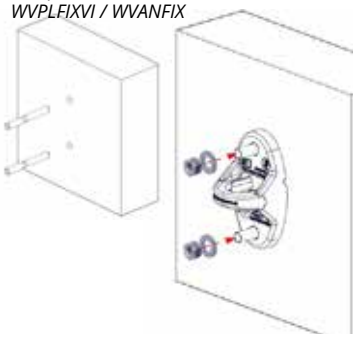
- Environments: indoor & outdoor -40°C to +80°C
- Fastening: chemical or metal anchors
- Facilitates carabiner connection
  100% 316L stainless steel
  Quick and easy installation

Fastening kit
WVANCRM12
Ø12mm fasteners
HILTI HVU M12



x 2

Compatible with :
WVPLFIXVI / WVANFIX



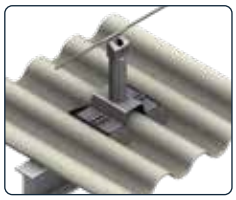
- Environments: indoor & outdoor -20°C to +50°C
- Installation on vertical, horizontal or angled structures
- Withstands strain in all directions & suitable for suspended access

Other types

STRUCTURE







Lifeline anchor
WVAFXFC



Rail anchor
WVAFXFCPA



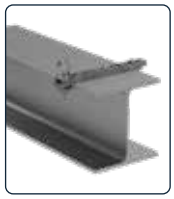
Anchor point
WVRAFXFC





Standard post
WVPST1





Standard anchor point
WVPEXAFX

Structure

Fastening kit
WVKVFC



- Easy installation with no work on the underside
- Fastening on metal structure: minimum IPN 80 or UPN 80
- Joints adapted to fibre cement plates with 5.5 corrugations for waterproofing

Structure

Fastening kit
WVKBx 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

- Fastening with clamping kit (WVKBx) or clipping kit (WVKCx)
- Sleeves for waterproofing connection: aluminium (WVFALU1), PVC (WVFPVC1) or lead (WVKEFP-TUILE)

Structure

Fastening kit
WVKBxP or WVKCxP

WVKBxP: Single clamping



WVKB1P: 80 - 150 mm
WVKB2P: 150 - 250 mm
WVKB3P: 235 - 330 mm
WVKB4P : 330 à 435 mm

WVKCxP: Single clipping



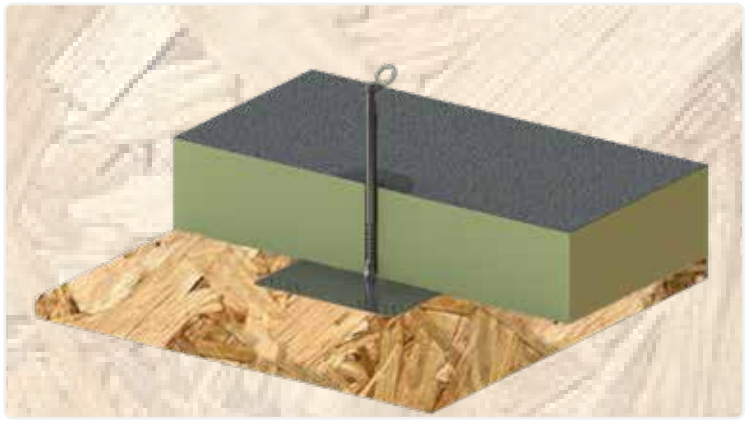
WVKC1P: 80 - 150 mm
WVKC2P: 150 - 250 mm
WVKC3P: 235 - 330 mm
WVKC4P : 330 à 435 mm

- Fastening with clamping kit (WVKBxP) or clipping kit (WVKCxP)

enjoy safety.



WOODEN BOARD







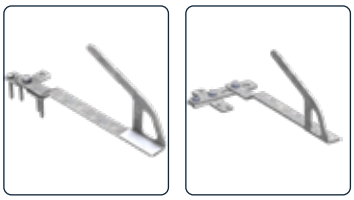
Anchor point
WVPARXx



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



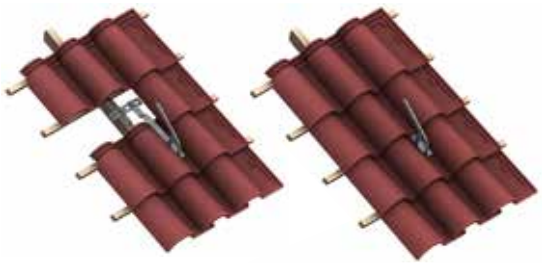
Waterproofing connection accessories for reinforcement kit

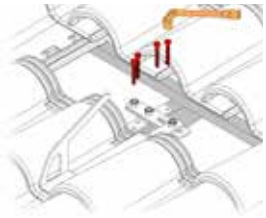
PVC sleeve (WVRXM012)
BM sleeve (WVRXM013)

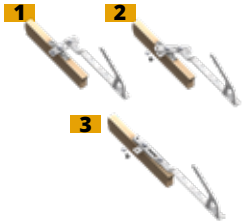
Wooden rafters

Fastening kit included
Lag screw x 4

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







- 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

- 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)

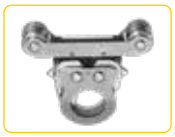
High design
Carefully finished for complete integration into architectural constraints

Safety
Presence of cable tension indicator and fall indicator

ACCESSORIES



WVCMS3 - Glider
For using the system at a distance without disconnection while passing intermediate parts. Used with all types of connector.



WVCMS3KR - 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.

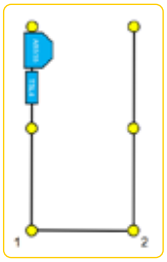
Online tutorials
Go to our YouTube page to see our tutorials for use and installation!

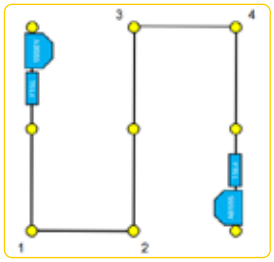


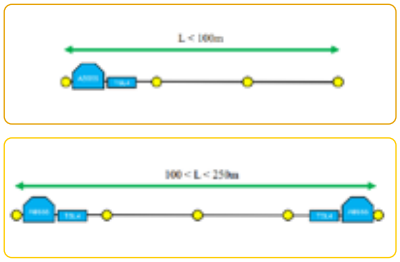
Design calculations
We have a special program for calculating our lifelines. It is available 24/7; please enquire for your identifiers.

INSTRUCTIONS & EXAMPLES OF INSTALLATION

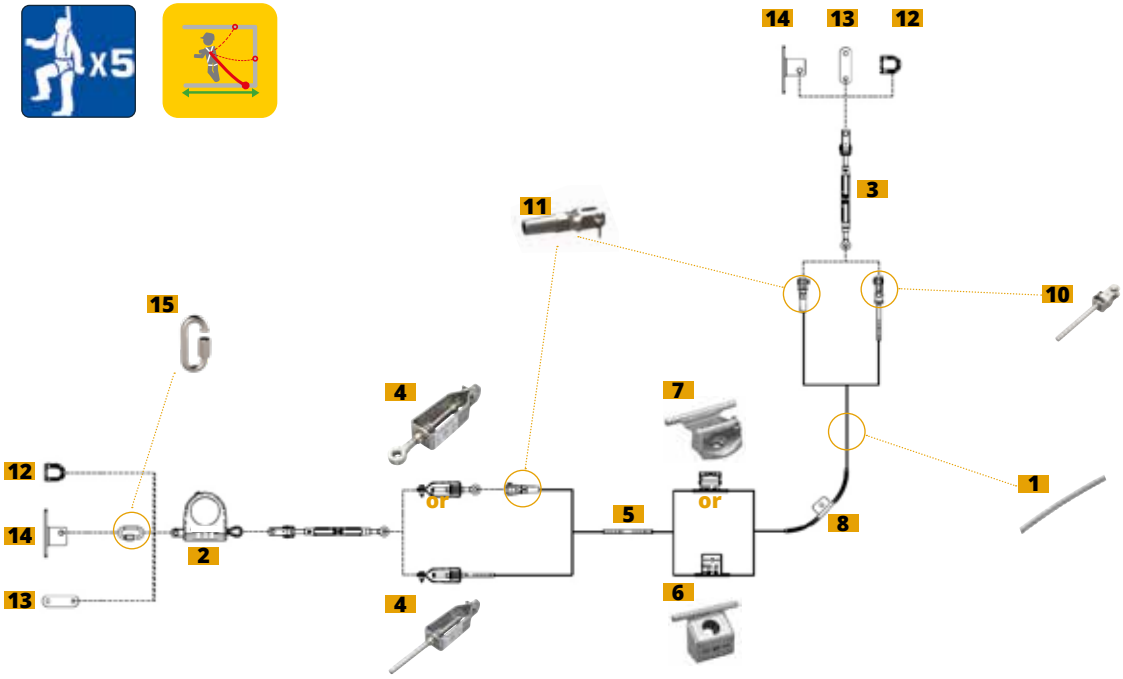
		ABS55	TSL4
	0 < n ≤ 2	1	1
	3 < n ≤ 5	2	2
	0 < L < 100 M	1	1
	100 < L < 250M	2	2







enjoy safety.



LIST OF PARTS



Cable
WVCI8
Stainless steel, Ø8mm, 7x7
Integrated tape for improved traceability,



Energy absorber
WVABS55C
Reduces the forces applied to the structure, Available in metal shell version (ABS55M).



Manual pre-tensioner
WVTSL4
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.



Fixed intermediate piece
WVIFR90
For passing the glider without unhooking.



Mobile intermediate piece
WVIMR
For passing the glider without unhooking.



Flexible angle piece
WVANGFLEX



Flexible angle piece for façade
WVANGFLEXSA



Articulated clevis crimping end
WVES2
Lifeline end with crimping.



Manual end piece
WVEC
Manually mounted on the end of the cable.



Anchor ring
WVPEXAFX
End anchor. May also be used as an anchor point.



Terminal anchor
WVPEX
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 / WVPSLDV
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 kits
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.

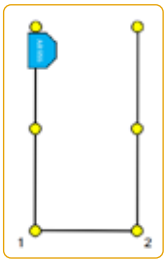
SERVICES

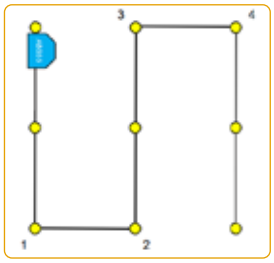
Online tutorials
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Design calculations
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INSTRUCTIONS & EXAMPLES OF INSTALLATION

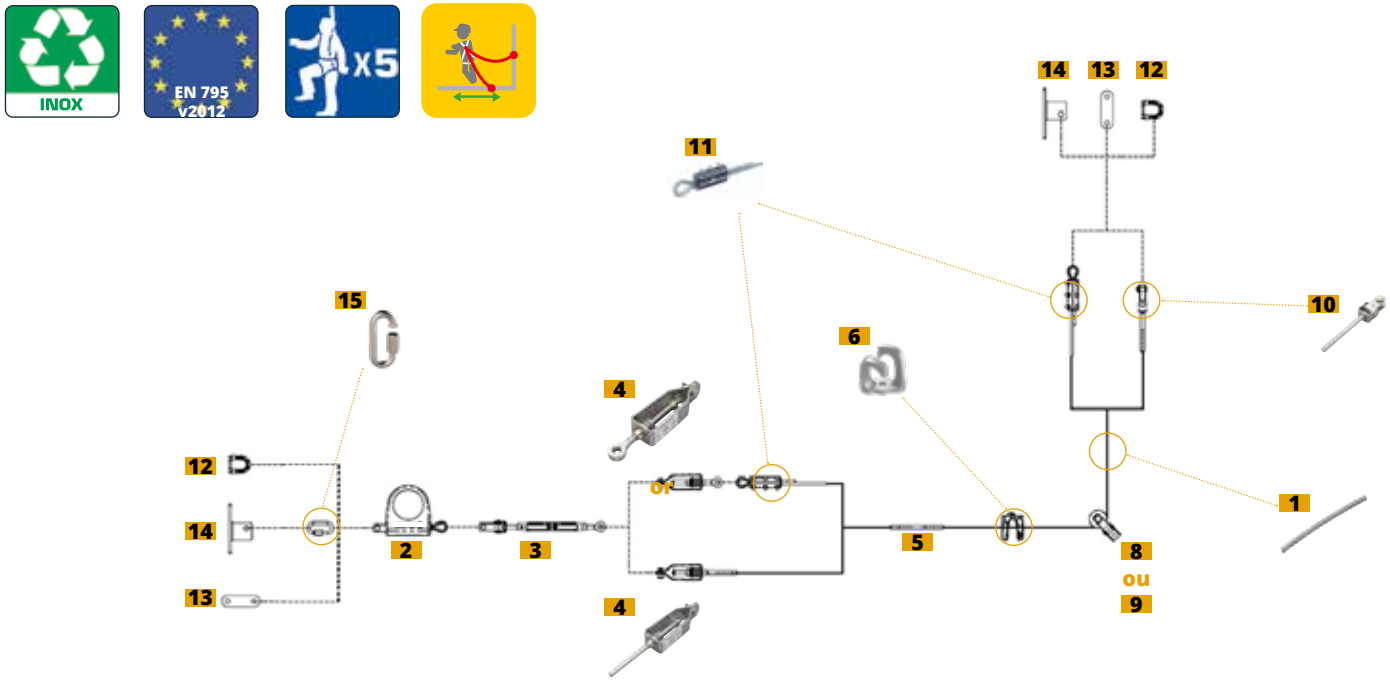
		ABS55C	TSL4
	0 < n ≤ 3	1	0
	4 < n ≤ 6	1	0
	0 < L < 100 M	1	0
	100 < L < 250M	1	1 recommended







enjoy safety.



LIST OF PARTS

1



Cable
WVCI8
Stainless steel, Ø8mm, 7x7
Integrated tape for improved traceability,

2



Energy absorber
WVABS55C
Reduces the forces applied to the structure, Available in metal shell version (ABS55M).

3



Manual pre-tensioner
WVTSL4
Allows tension at the end of the line with no special tools.

4



Manual tensioner/for crimping
WVBATSL250/WVBATSL350
For adjusting the line tension.
Integrated tension indicator.

5



Crimping sleeve
WVMAC02C8
For joining the cable. Crimper required.

6



Intermediate piece
WVBAINT2
Maximum 15 metres space between each anchor.

7



Manual end
WVSB
Assembled without special tools.

8



Angle piece
WVBAANG2
For making variable angles.

9



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

10



Articulated clevis crimping end
WVES2
Lifeline end with crimping.

11



Manual end piece
WVEC
Manually mounted on the end of the cable.

12



Anchor ring
WVPEXAFX
End anchor. May also be used as an anchor point.

13



Terminal anchor
WVPEX
End anchor.

14



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

15



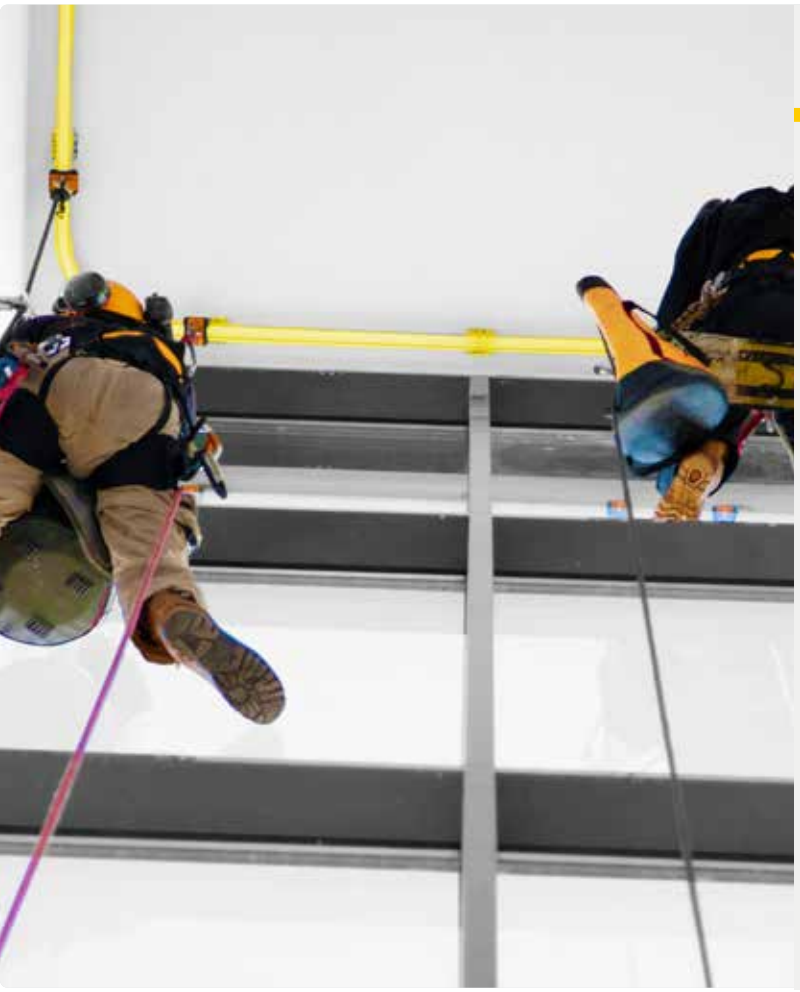
Quick link
WVA0001
For connecting the energy absorber and the T piece (optional).

16



Safety signboard
WVPS /WVPSLDV
Installation at the system access. For identifying and monitoring the system.

Altirail



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 aluminium 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



WVRCF2
Roller glider
Made with several rollers to allow perfect movement regardless of the position used. This glider is ideal for intensive use.



WVRCF3
Glider for suspended access
Designed for travelling under load, allows great mobility during work when suspended.



Lateral movement



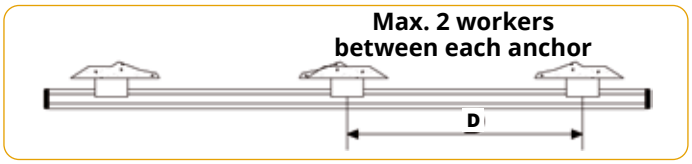
Movement above the rail



In ceiling position

INSTRUCTIONS FOR USE

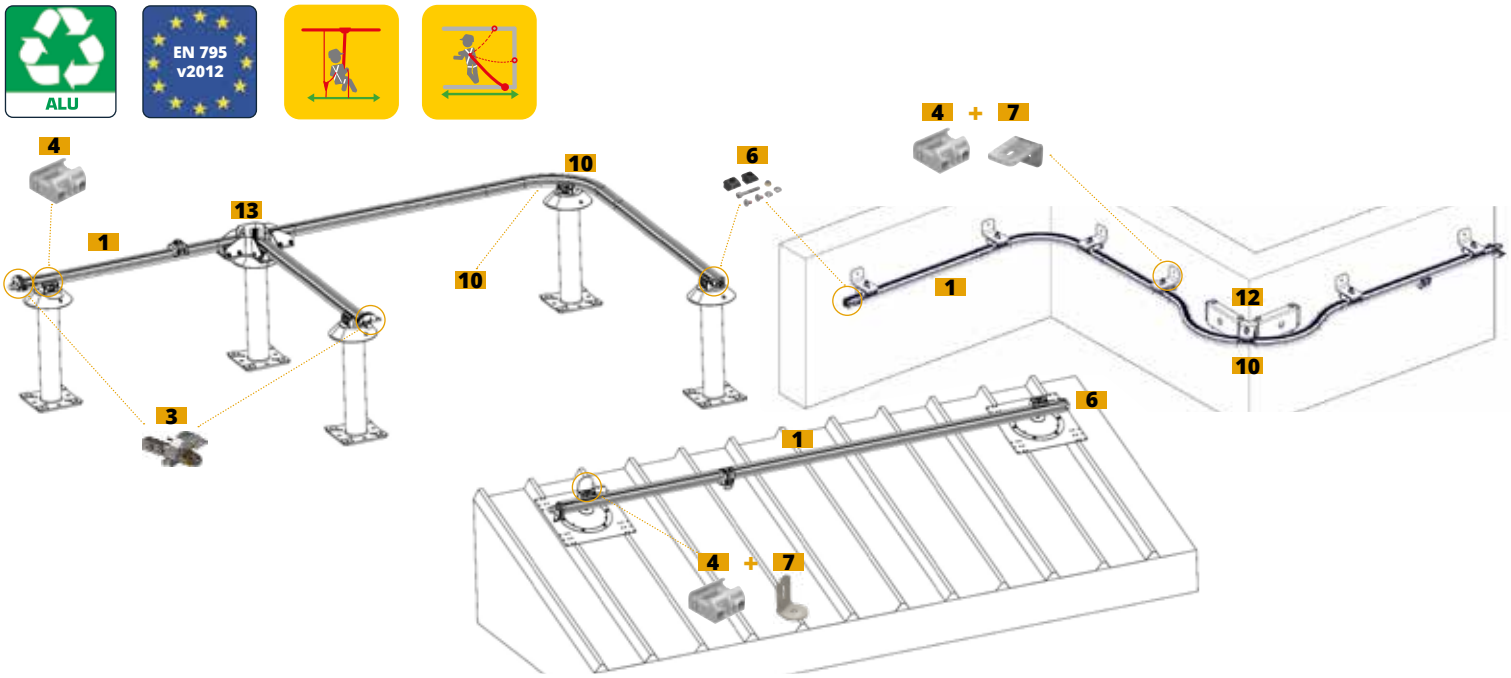
Use only in a fall-protection system **D = 4 m**
Suspended access **D = 2 m**



SERVICES

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

enjoy safety.



LIST OF PARTS



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



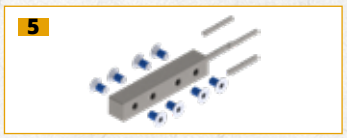
Glider entry/exit
WVRRO
For installation at any point of the rail to allow the glider to be put in place.



Folding stop
WVRBE
For inserting the glider on the rail. Automatic closure.



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



Splice
WVRECL
For assembling two rail lengths.



Fixed stop
WVREXTF
Locks the glider at the end and finishes the rail perfectly.



bracket
WVREQG or WVREQI
For mounting the rail on a façade with movement on the underside. Available in stainless steel.



Safety signboard
WVRPS
Installation at the system access. For identifying and monitoring the system.



90° angles - lateral movement
WVRA90E/WVRA90S
Interior/exterior angle for lateral movement of glider.



90° angles - underside movement
WVRA90E2/WVRA90S2
Interior/exterior angle for movement on the underside of the glider.



Rail angle anchors
WVRIAFS/WVRIAFS2/
WVRIAFS2SF
Standard angle anchors without offset.



Rail angle anchors
WVRIAS/WVRIAS2/WVRIAS2SF
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.

Altirail LR long span



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

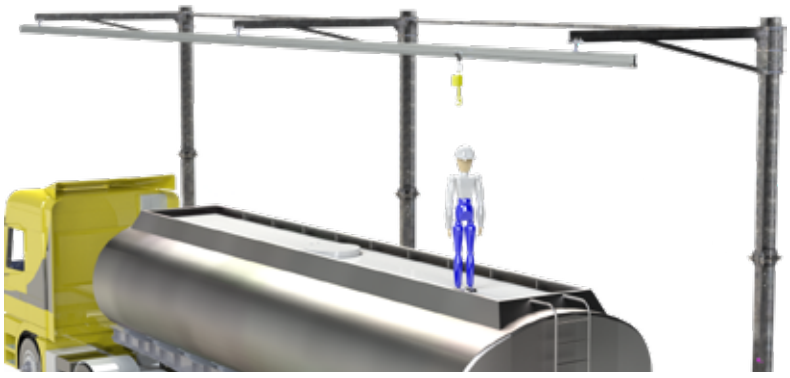
Long life
Very strong 316 stainless steel glider and profile, suitable for aggressive and dusty environments

Safety
Glider with 2 safety hooks
Screws pre-coated with thread locker to prevent loosening

ACCESSORIES

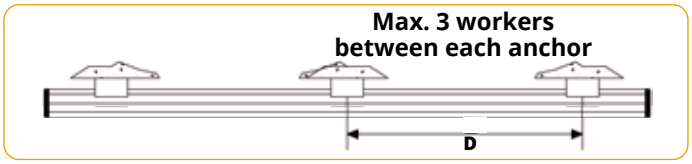


WVRCLR
Glider
The WVRCLR glider is permanently installed on the rail.
Because of its peerless movement fluidity, it makes it possible to move unhindered alone the whole rail span.



INSTRUCTIONS FOR USE

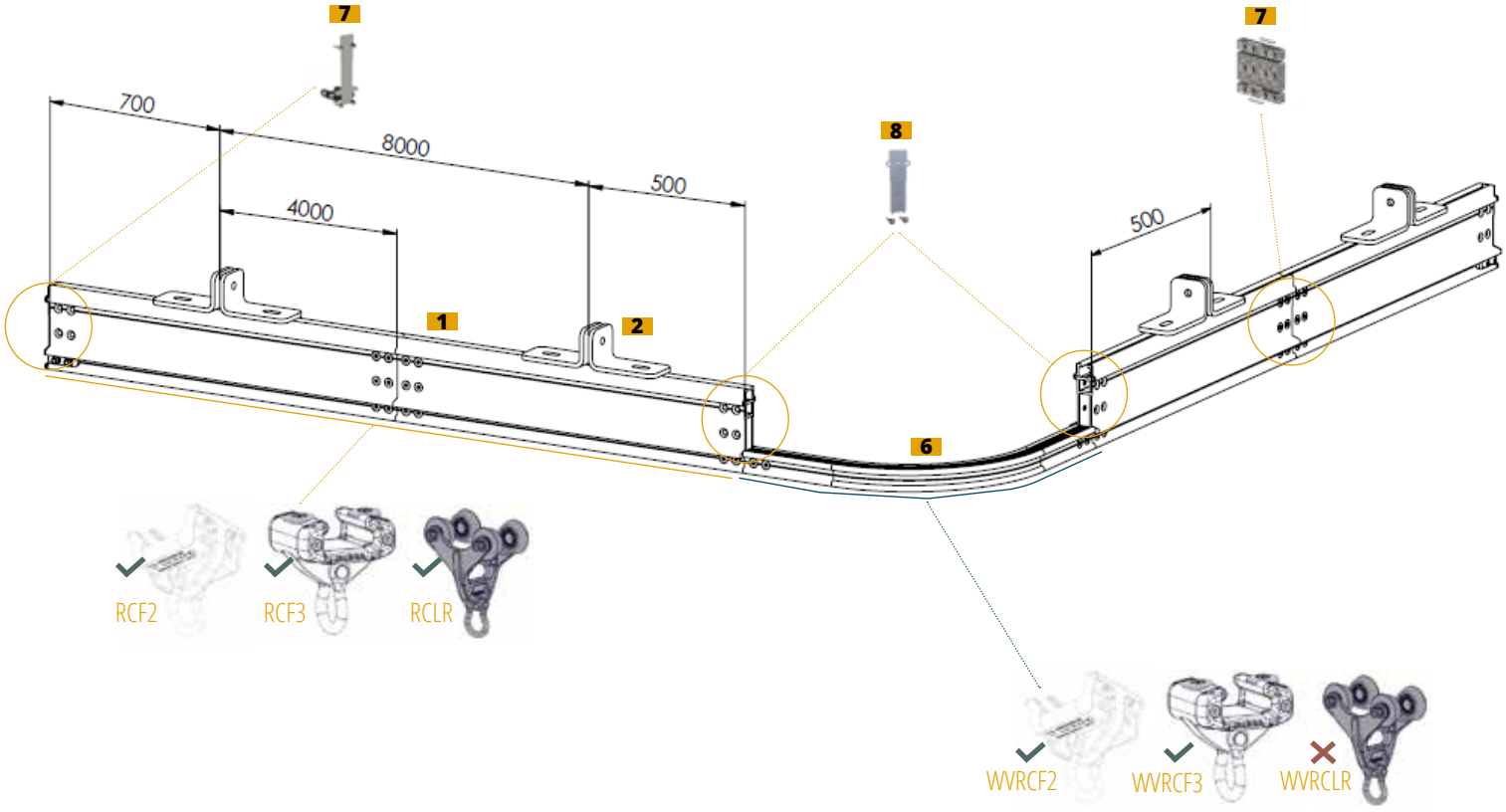
Use only in a fall-protection system **D = 8 m**
Suspended access **D = 5 m**



SERVICES

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

enjoy safety.



LIST OF PARTS

1



LR rail
WVRRAILLR1 / WVRRAILLR2 / WVRRAILLR
May be cut or drilled if needed (ROUTP tool).
Length : 1,10m, 2,20 m et 4,40 m.

2



LR rail anchor
WVRSUPLR1
Allows the LR rail to be turned along the line of the fall. Galvanised steel.

3



LR rail anchor
WVRSUPLR2
For fastening the LR rail perpendicular to the structure. Galvanised steel.

4



LR rail anchor
WVRSUPLR3
For fastening the LR rail parallel to the structure. Galvanised steel.

5



LR rail splice
WVRECLLR
For assembling two rail lengths.

6



90° angles - underside movement
WVRA90E2/RA90S2
Interior/exterior angle for movement on the underside of the glider.

7



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

8

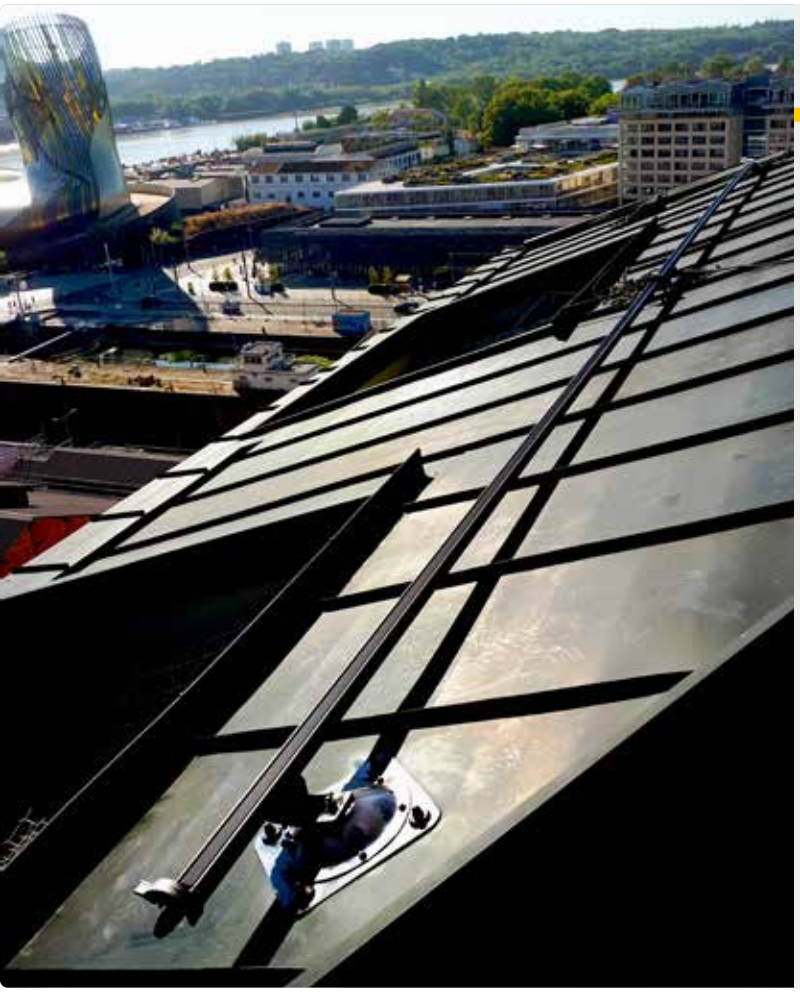


LR rail angle end
WVRBALR
For a perfect rail finish.

9



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

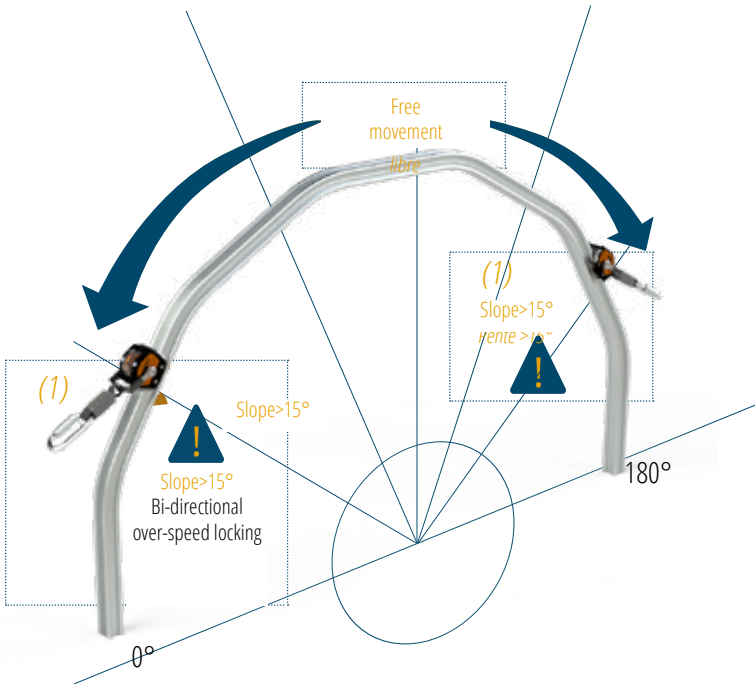


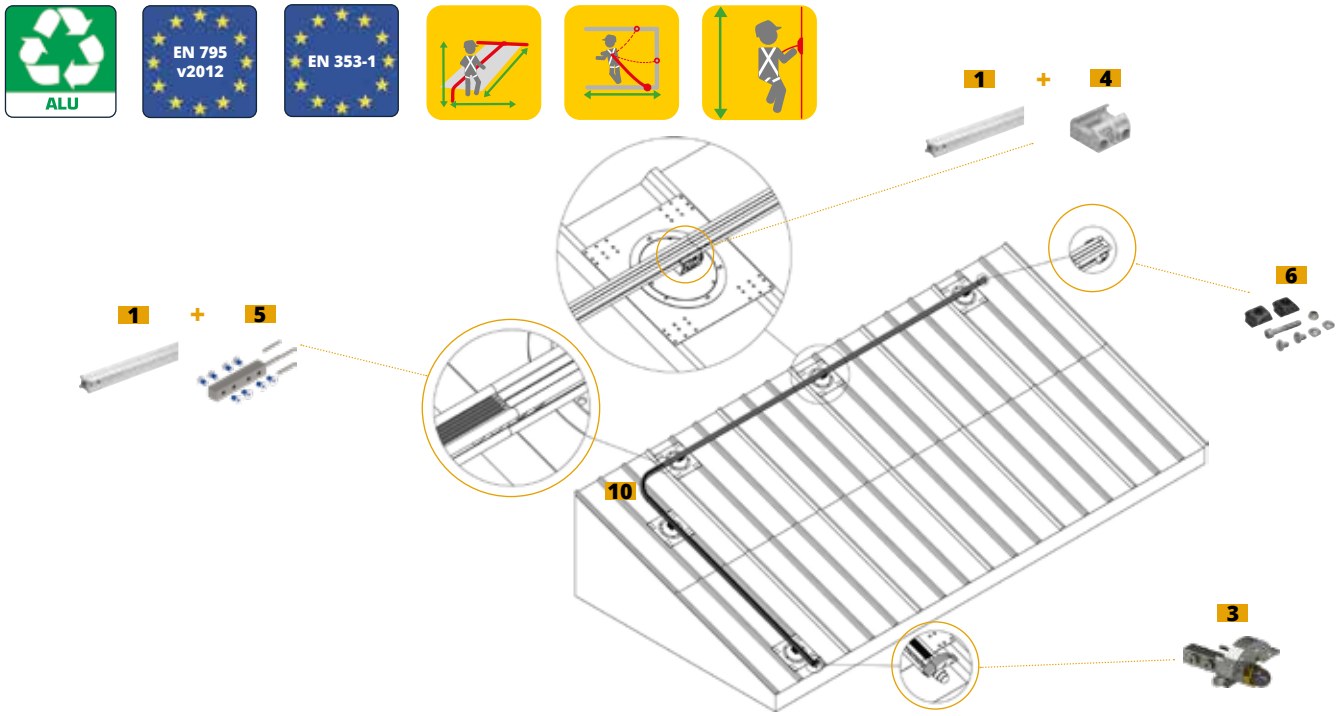
WVRCBC
Glider
This glider is fitted with multiple rollers for perfect movement, regardless of the position of use.

(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!





LIST OF PARTS



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



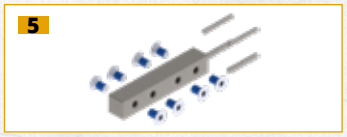
Glider entry/exit
WVRRO
For installation at any point of the rail to allow the glider to be put in place.



Folding stop
WVRBE
For inserting the glider on the rail. Automatic closure.



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



Splice
WVRECL
For assembling two rail lengths.



Fixed stop
WVREXTF
Locks the glider at the end and finishes the rail perfectly.



bracket
WVREQG or WVREQI
For mounting the rail on a façade with movement on the underside. Available in stainless steel.



Safety signboard
WVRPS
Installation at the system access. For identifying and monitoring the system.



90° angles - lateral movement
WVRA90E/WVRA90S
Interior/exterior angle for lateral movement of glider.



90° angles - underside movement
WVRA90E2/WVRA90S2
Interior/exterior angle for movement on the underside of the glider.



Rail angle anchors
WVRIAFS/WVRIAFS2/
WVRIAFS2SF
Standard angle anchors without offset.



Rail angle anchors
WVRIAS/WVRIAS2/WVRIAS2SF
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
WVRANTIR
For locking the glider on a given area of the rail.



OPTIONAL

Special bends on request.

Vertiligne



Avantages

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



ASCAB AN071 mobile blocking carriage
The ASCAB AN071 moves remotely through the intermediate pieces, while ensuring unidirectional blocking.

Smart, it can be connected at any point on the cable.

EN-353-1 certified with textile absorber.

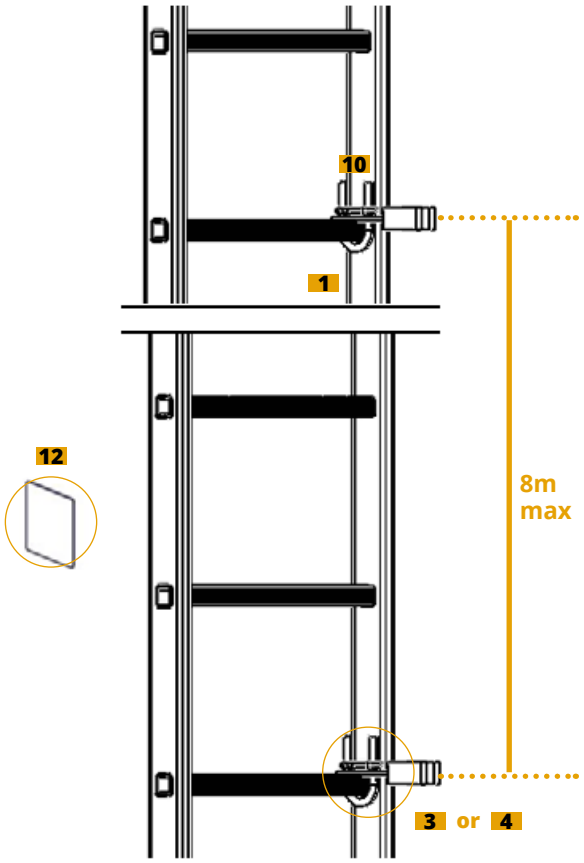
SERVICES

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

Ladder extension



WVPHR2 ladder extension
To make it easier to extend ladders and go out of them, we have developed the WVPHR2 reference to extend the lifeline.



NOMENCLATURE

1



Cable
WVCI8
Stainless steel, Ø8mm, 7x7. Integrated tape for improved traceability,

2



Bracket
WVSBP
For fastening on a concrete wall.

3



90° intermediate piece
WVCG90
Mandatory every 8 metres.

4



Straight intermediate piece
WVCGS
Mandatory every 8 metres.

5



Lifeline riser
WVPHR2
Makes it easier for the worker to move from ladder to roof.

6



Lower end piece
WVEVB3
For pre-tensioning the cable.

7



Lower anchor
WVSHL4
For fastening the lower end of the ladder. Compatible with different types of stile.

8



Lower and upper anchor
WVSHL1
For fastening the lower or upper end of the ladder. Can be adjusted for the post diameter.

9



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

10



Articulated clevis crimping end
WVES2
Lifeline end with crimping.

11



Safety signboard
WVPSV
Installation at the system access. For identifying and monitoring the system.

Vertirail



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)



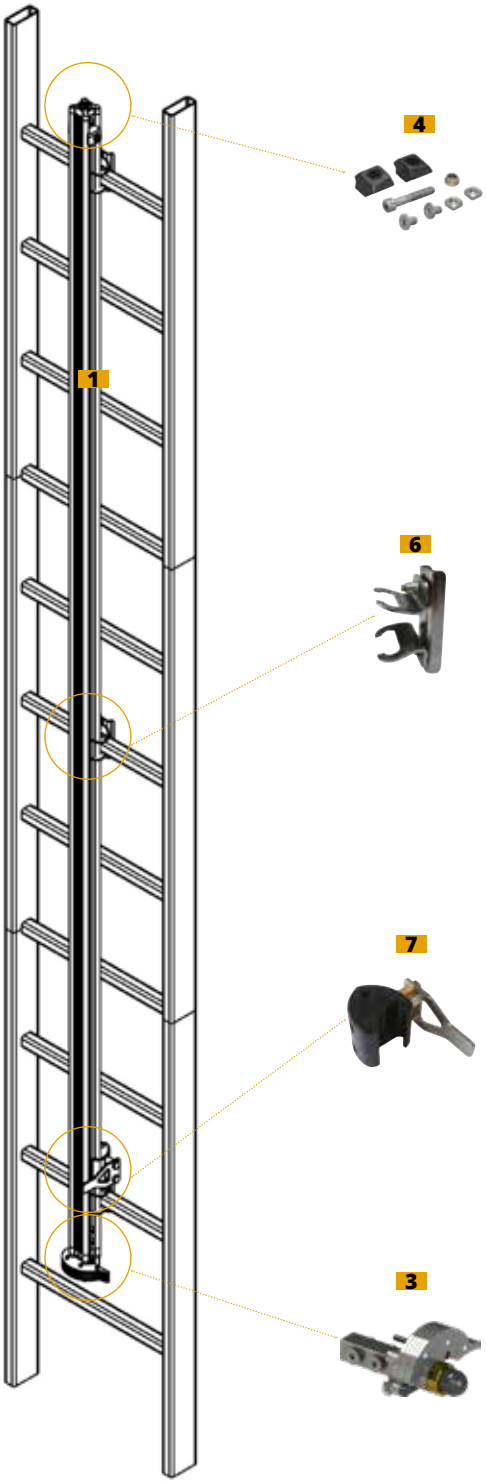
ACCESSORIES



WVRCBV
Unidirectional locking glider
The versatile WVRCBV 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!



LIST OF PARTS

1



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

2



Glider entry/exit
WVRRO
For installation at any point of the rail to allow the glider to be put in place.

3



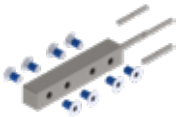
Folding stop
WVRBE
For inserting the glider on the rail. Automatic closure.

4



Fixed stop
WVREXTF
Locks the glider at the end and finishes the rail perfectly.

5



Splice
WVRECL
For assembling two rail lengths.

6



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

7



Foolproofing
WVRDET
Prevents errors while putting the glider in place.

8



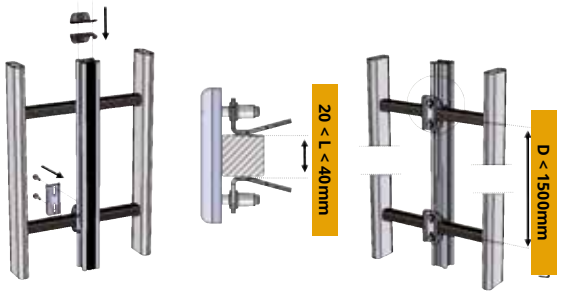
Safety signboard
WVRPS
Installation at the system access. For identifying and monitoring the system.

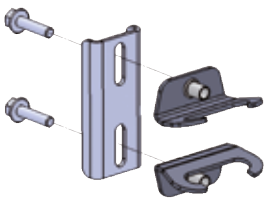
9

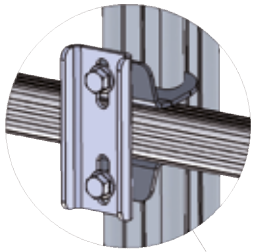


Manual routing
WVRAIG3D/WVRAIG4D
For changing directions.
Available in 3/4 directions.

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 system
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 great heights.



ACCESSORIES



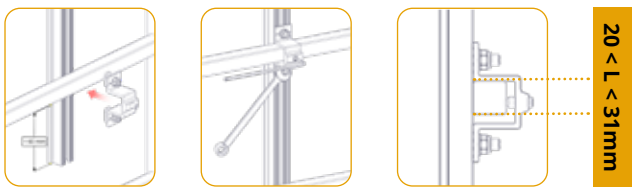
WVLDRS
Unidirectional locking glider
The versatile WVLDRS glider can be used on structures with angles of up to 15° lateral and 45° frontal.
When any tension is applied downward, the glider locks automatically in its position.

SERVICES

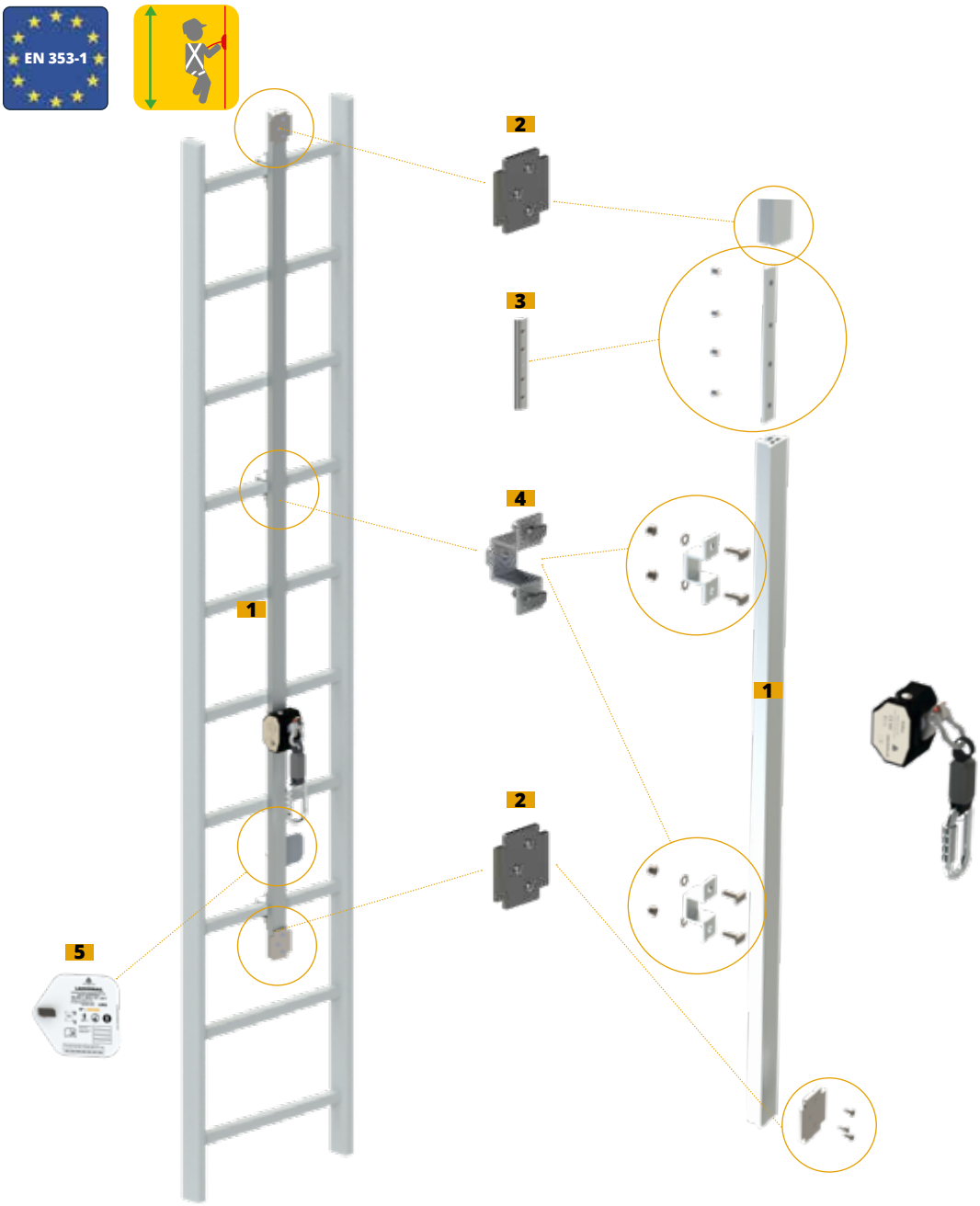
Online tutorials
Go to our YouTube page to see our tutorials for use and installation!

LADDER COMPATIBILITY

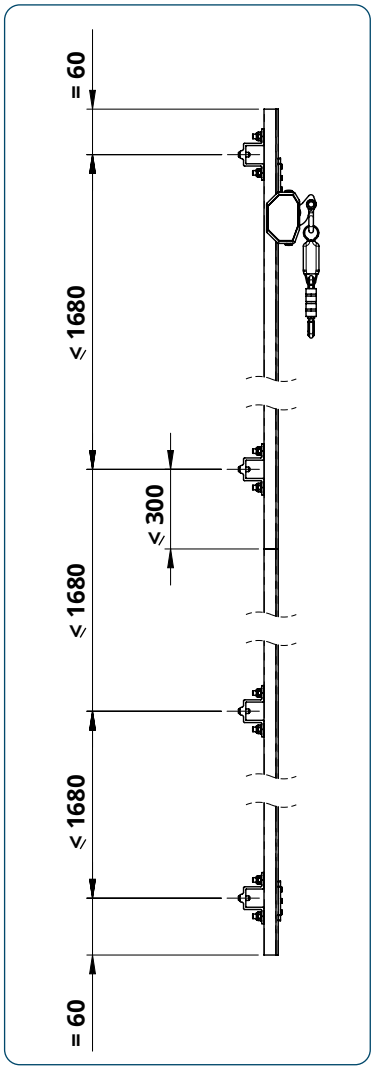
Compatible with tubular and square rungs



enjoy safety.



RAIL ASSEMBLY PRINCIPLE



LIST OF PARTS

1



Aluminium rail
WVLDRRAIL
Length: 3m.

2



Fixed stop
WVLDREXTF
Locks the glider at the end and finishes the rail perfectly.

3



Splice
WVLDRECL
For assembling two rail lengths.

4



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

5

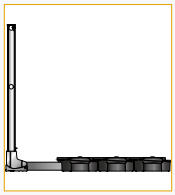


Safety signboard
WVLDRPS
Installation at the system access. For identifying and monitoring the system.

Selection assistance: guardrails

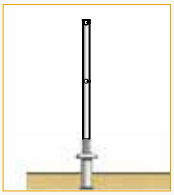
1 DEFINE YOUR INTERFACE

Self-supporting



Self-supporting EVOAPx

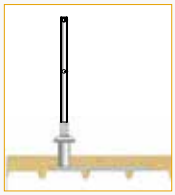
Waterproofed substrates



On slab D shoe with insulation EVODEx

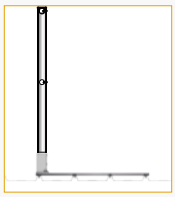


On slab D shoe without insulation EVODEx



On deck BE shoe EVOBEx

Steel deck



Steel deck EVOBSx

Parapet



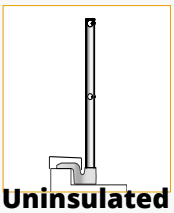
Flat surface mounting EVOVx



Offset mounting without off-set EVOLx



Offset mounting with offset EVOLx

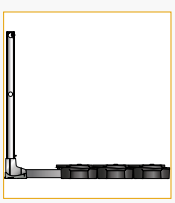


Uninsulated parapet EVOZx



Insulated parapet EVOZx

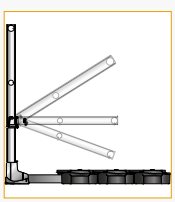
2 SELECT YOUR UPRIGHT



Straight EVOxD_



Angled EVOxC_



Folding EVOxF_

3 SELECT YOUR FINISH



No finish



Powder coated EVOxxL_

enjoy safety.



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.

1

Reduced handling operations and ergonomics

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.

2

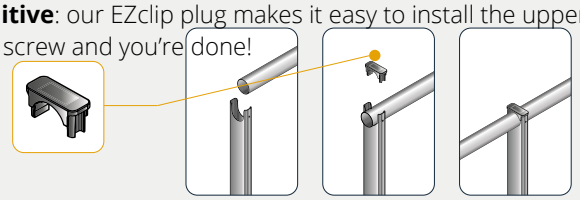
Easy and intuitive installation

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!



3

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

Guardrails: common list of parts

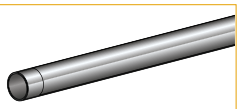
COMMON PARTS

1



Ø45 mm rail with reduction
3000 mm long
WV830450

2



Ø35 mm mid rail with reduction
3000 mm long
WV830350

3



Ø45 mm rail plug
WV830451

4



Ø35 mm mid rail plug
WV830351

5



EZclip plastic plug
WV820000

6



Ø45 mm rail angle
WV830452

7



Ø35 mm mid rail angle
WV830352

8



Ø45 mm rail and Ø35 mm mid rail aluminium angle
WV830453

9



Ø45 mm rail wall termination
WV830454

10



Ø35 mm mid rail wall termination
WV830354

11



Ø45 mm rail and Ø35 mid rail aluminium wall termination
WV830455

12

Straight upright
WV8200535 - H : 535 mm
WV8200760 - H : 760 mm
WV8200825D - H : 825 mm
WV8200860 - H : 885 mm
WV8201010V2 - H : 1010 mm
WV8201105V2 - H : 1105 mm
WV8201182 - H : 1182 mm

13



Angled upright
WV8200565C - H : 565 mm
WV8200870C - H : 855 mm
WV8201005C - H : 1005 mm
WV8201132C - H : 1165 mm

14



Folding upright
WV8200885F - H : 885 mm - aluminium articulation
WV8200825DF - H : 885 mm - aluminium articulation
WV8201010F - H : 1010 mm - aluminium articulation
WV8201105F - H : 1105 mm - aluminium articulation

FASTENERS



Bases

Hex socket screw
M08X10i DINI913
Z0SYSBVI5ST002



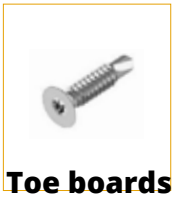
Deck

Self-drilling screw and sealed washer 6x25
Z0SYSBVHF06025



Deck

Neck washer
Z0SYSBRC001



Toe boards

Self-drilling screw

Perfix TH st st 4.8 x 16
Z0SYSBVHF48016



Mid rail

Self-drilling screw

Perfix TH st st 4.8 x 25
Z0SYSBVHF48025

Perfix TH inox 4.8x32
Z0SYSBVHF48032



Concrete blocks

Self-drilling screw

Perfix TH st st 4.8 x 50
Z0SYSBVHF48050

ALU

INOX

EN 14122-3 : 2017

NF E85-015 : 2019

*NTC 2018
*DIN EN 13 374
please enquire

BASES

15


Flat base
WV811001

16

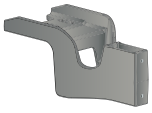

Surface mounted base with 60 mm offset
Aluminium
WV812002

17


Surface mounted base with 95 mm offset
Aluminium - special part number

18


Surface mounted base with 116 mm offset
Aluminium - special part number

19


Z shoe for uninsulated parapet
Aluminium
WV813000

20


Z shoe for insulated parapet ⩽ 70 mm
Aluminium
WV813070

21


Z shoe for insulated parapet ⩽ 100 mm
Aluminium
WV813100

22


Z shoe for insulated parapet ≤ 130 mm
Aluminium
WV813130

23

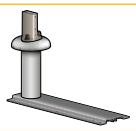

Z shoe for insulated parapet ≤160 mm
Aluminium
WV813160

24


D shoe post with insulation
Height to measure - Special part number

25


D shoe post without insulation
Height to measure - Special part number

26


BE shoe post
Height to measure - Special part number

27


D/BE shoe waterproofing sleeve
Z2SYS814002

28


Perpendicular plain deck railing base - 250mm corrugation
WV815011

29


Parallel plain deck railing base - 250mm corrugation
WV815010

30

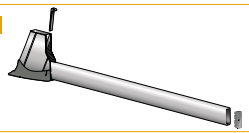

Perpendicular plain deck railing base - 333mm corrugation
WV815021

31


Parallel plain deck railing base - 333mm corrugation
WV815020

32

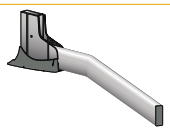

Straight brace
Self-supporting straight and folding version
WV817002

33


25° brace
Angled self-supporting version
WV817003

34


Base + brace, 32° bend to the right
WV817010

35


Base + brace, 32° bend to the left
WV817011

36

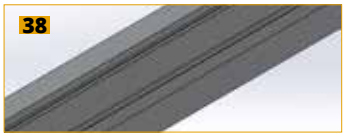

Locking wedge
WV817001

37


Plastic pedestal, 12.5 kg
3 pedestals per brace (French standard)
WV817000

Guardrails: common list of parts

TOE BOARD



Toe board
L : 3000 x 100 x 9 mm -WV840010
L : 3000 x 150 x 9 mm -WV840000



External toe board angle kit
Height : 100 mm - WV840011
Height : 150 mm - WV840003



Straight toe board fitting
Height : 100 mm - WV840013
Height : 150 mm - WV840005



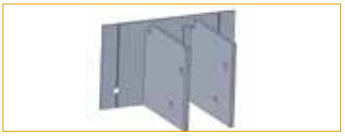
Toe board cap
Height : 100 mm - WV840012
Height : 150 mm - WV840001



Toe board anchor for railing, flat and on plain steel deck
Height 150 mm
WV841001



Toe board anchor for railing with offset plate and waterproofed deck
Height 150 mm
WV844001



Toe board anchor for self-supporting guardrails
Height : 67 mm
WV847010

ACCESSORIES

1000 mm railing and ladder joining kits
Practical: adapt to all types of railing and ladders in the market

Gate
Safety : the gate closes automatically to keep the users safe



1000mm railing and ladder joining kit
Aluminium - fasteners and companion plates included



1000mm railing and ladder joining kit
Plastic - fasteners and companion plates included



Gate kit for 25° angled self-supporting railing
Height 580mm and 1100 mm (elements available separately)

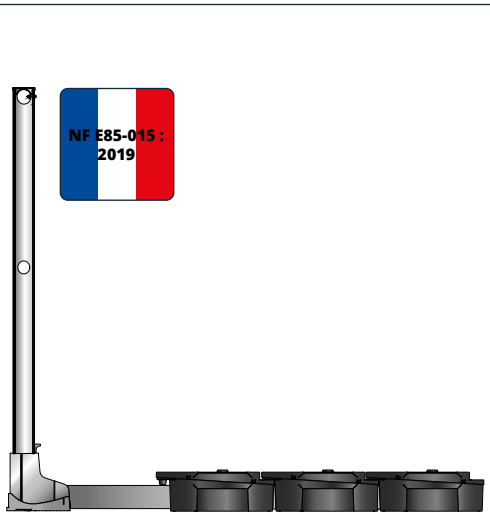


Gate kit for straight self-supporting railing
Height 580mm and 1100 mm (elements available separately)

Selection guide: gate

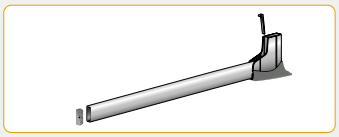
Railing	Upright	Description
580 mm high gate kit		
Self-supporting	Straight	580 mm high gate kit for straight self-supporting railing
	25° angle	580 mm high gate kit for 25° angled self-supporting railing
All but self-supporting	30° angle	580 mm high gate kit for angled EVO® railing
	Straight	580 mm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

Self-supporting guardrails

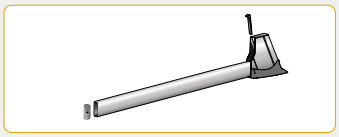




Bases



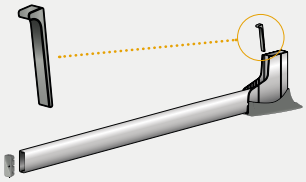
Straight brace
For straight railing version



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



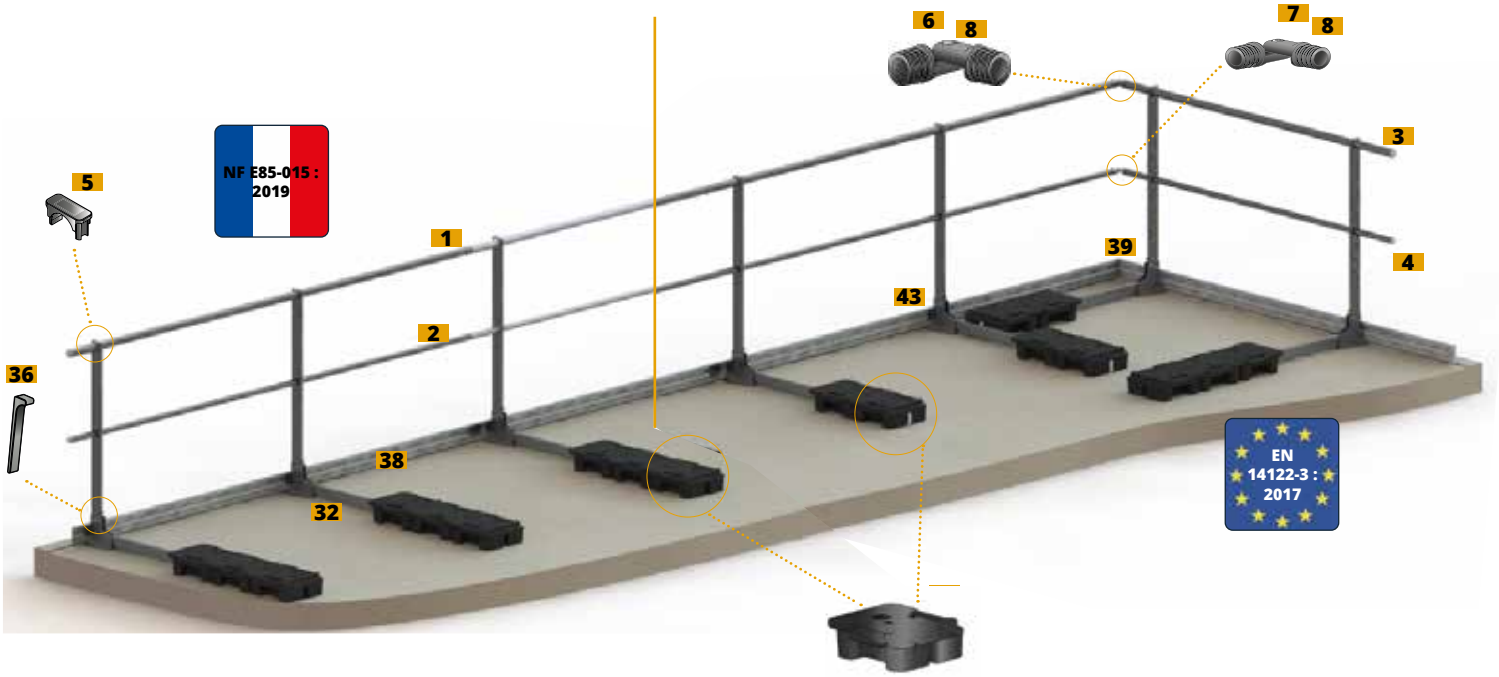
Straight upright



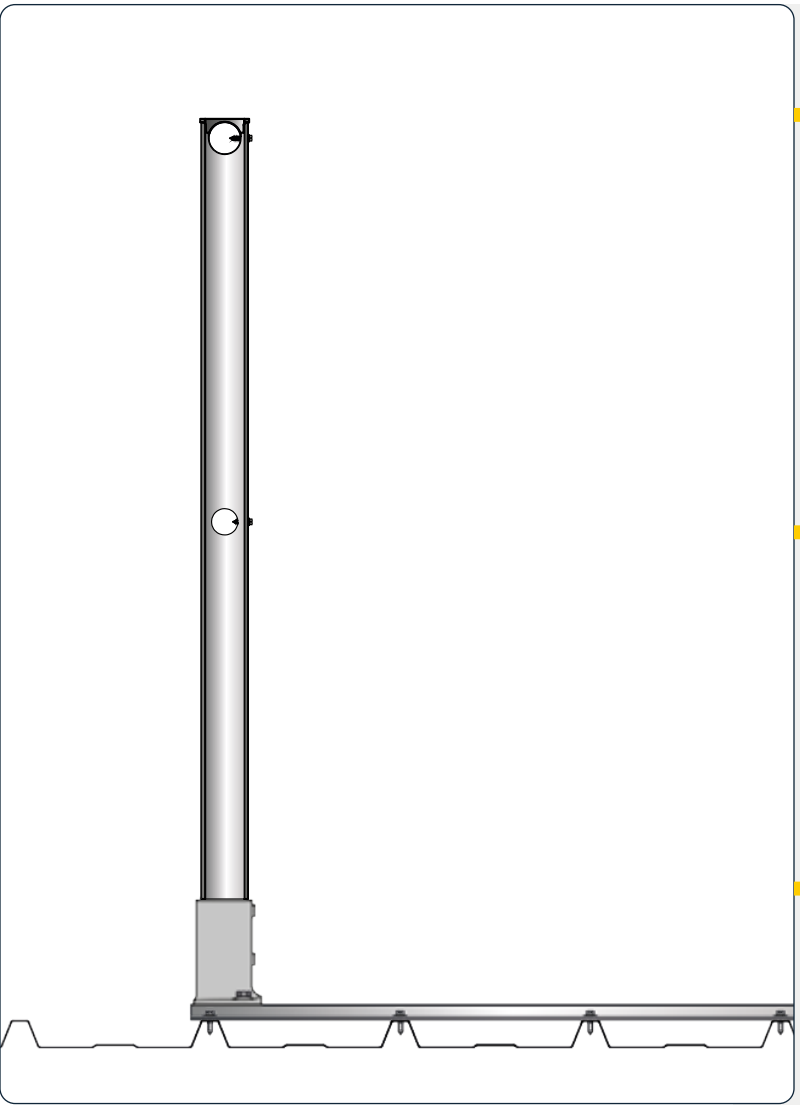
Straight upright angled version



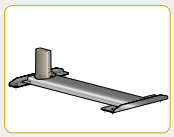
Folding upright



Guardrail on steel deck



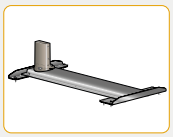
Bases



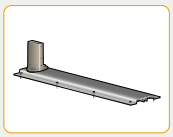
Perpendicular base - 250 mm corrugation
Fasteners not included



Parallel base - 250 mm corrugation
Fasteners not included



Perpendicular base - 333 mm corrugation
Fasteners not included



Parallel base - 333 mm corrugation
Fasteners not included

Fasteners

Fastened by 6x25 self-drilling screws and neck washers

Corrugations	Configuration	Quantities
250 mm	Parallel to deck	8 screws
	Perpendicular to deck	6 screws
333 mm	Parallel to deck	
	Perpendicular to deck	

Configurations



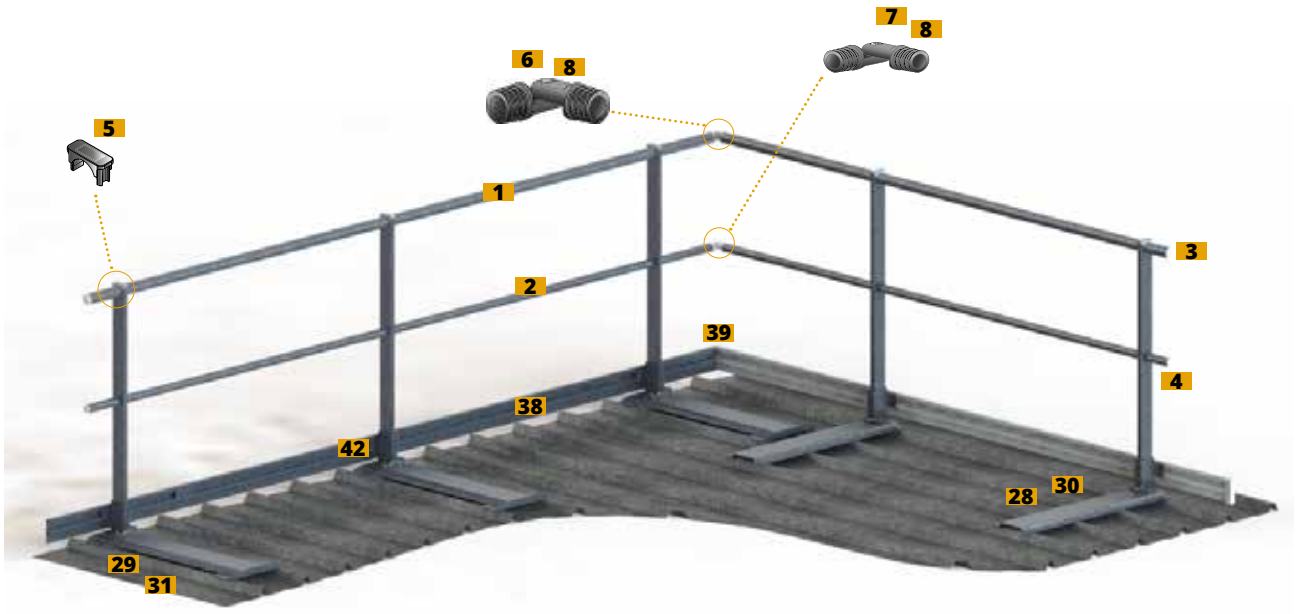
Straight upright



Angled upright

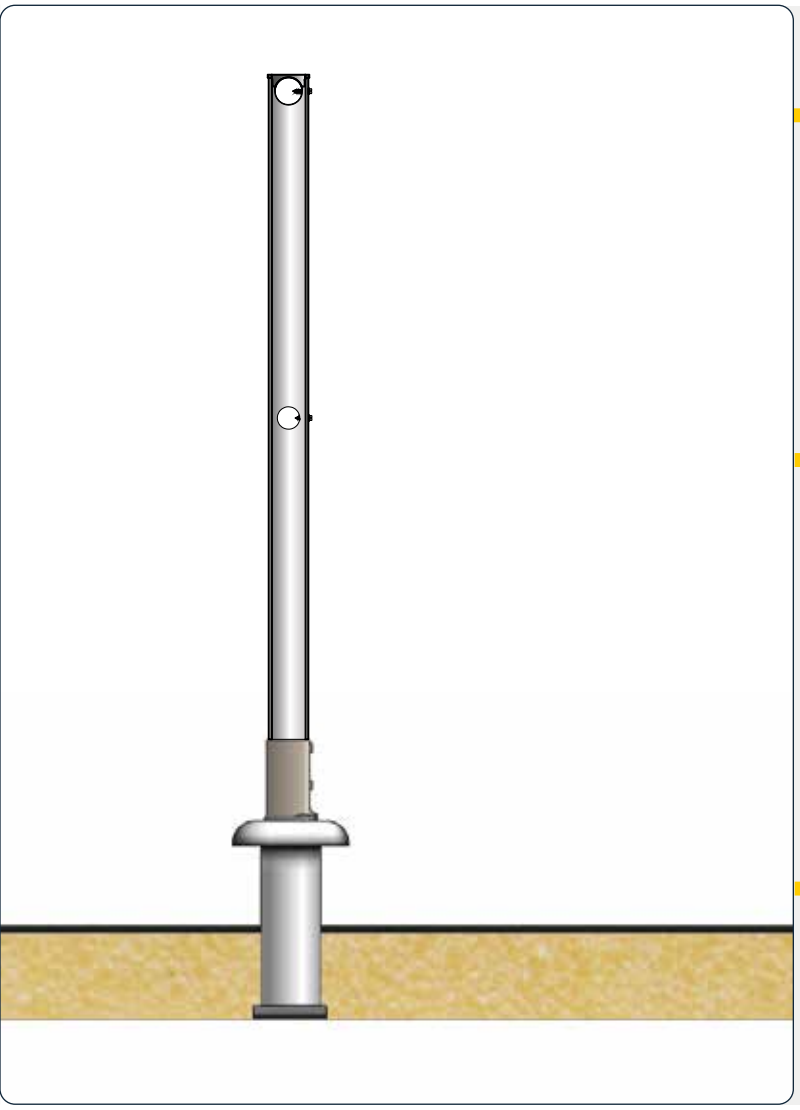


Folding upright



enjoy safety.

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



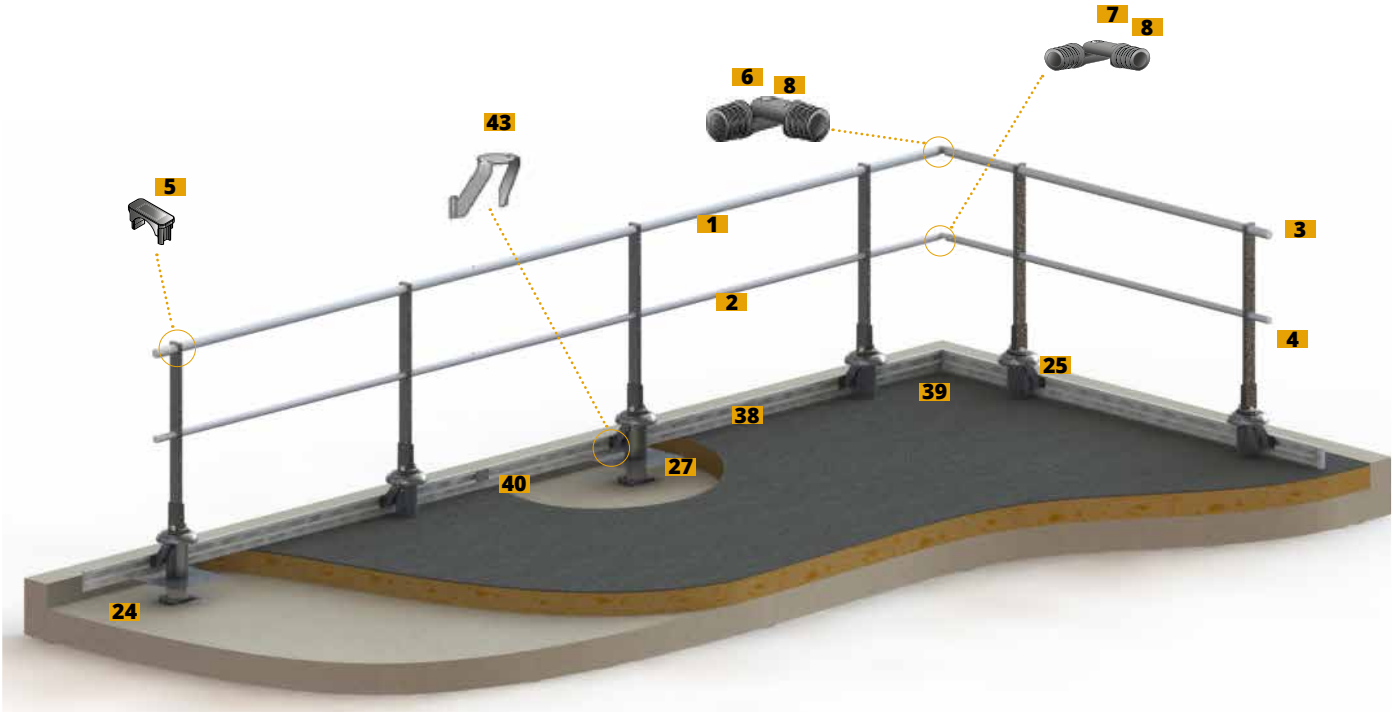
Straight upright



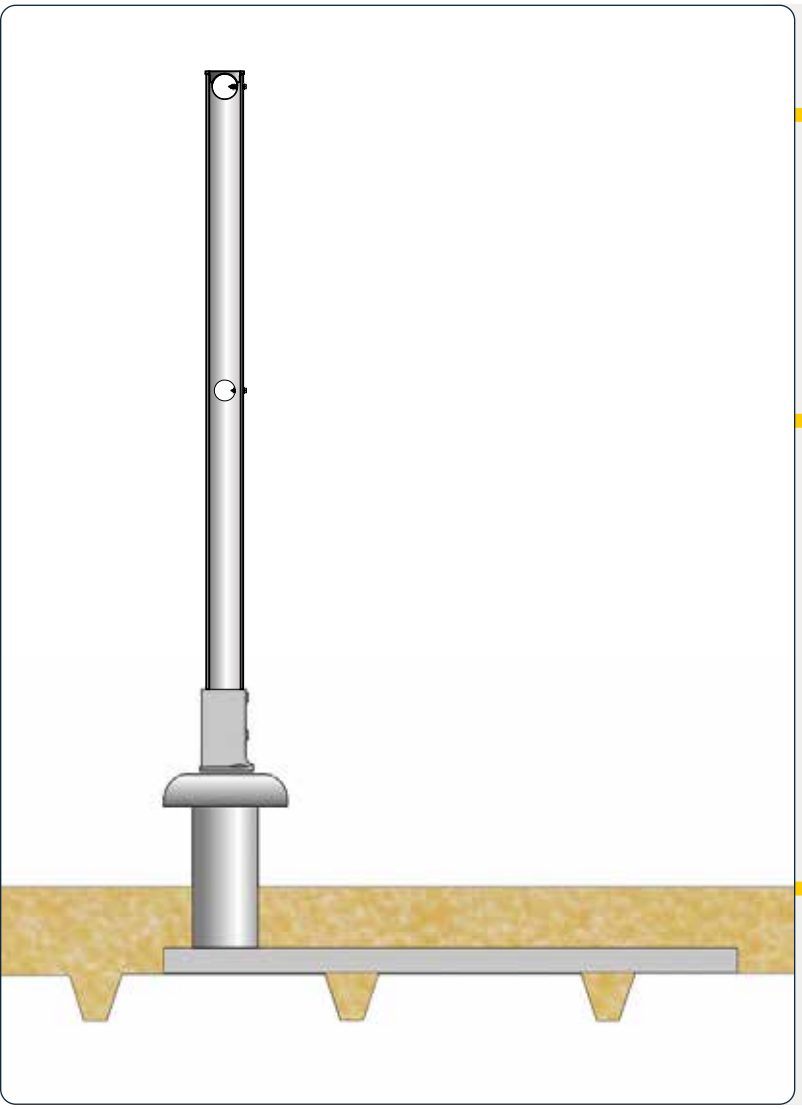
Angled upright



Folding upright



Guardrail on waterproofed deck



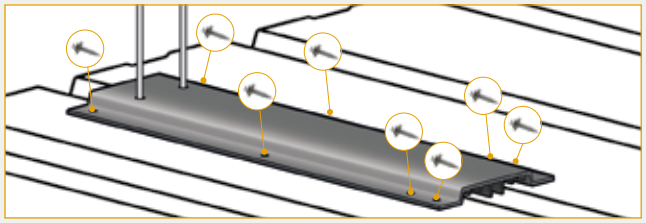
Bases



BE shoe post
Not including fastening to deck

Fasteners

Fixing the bases with 8 self-drilling screws and 6 x 25 waterproof washers

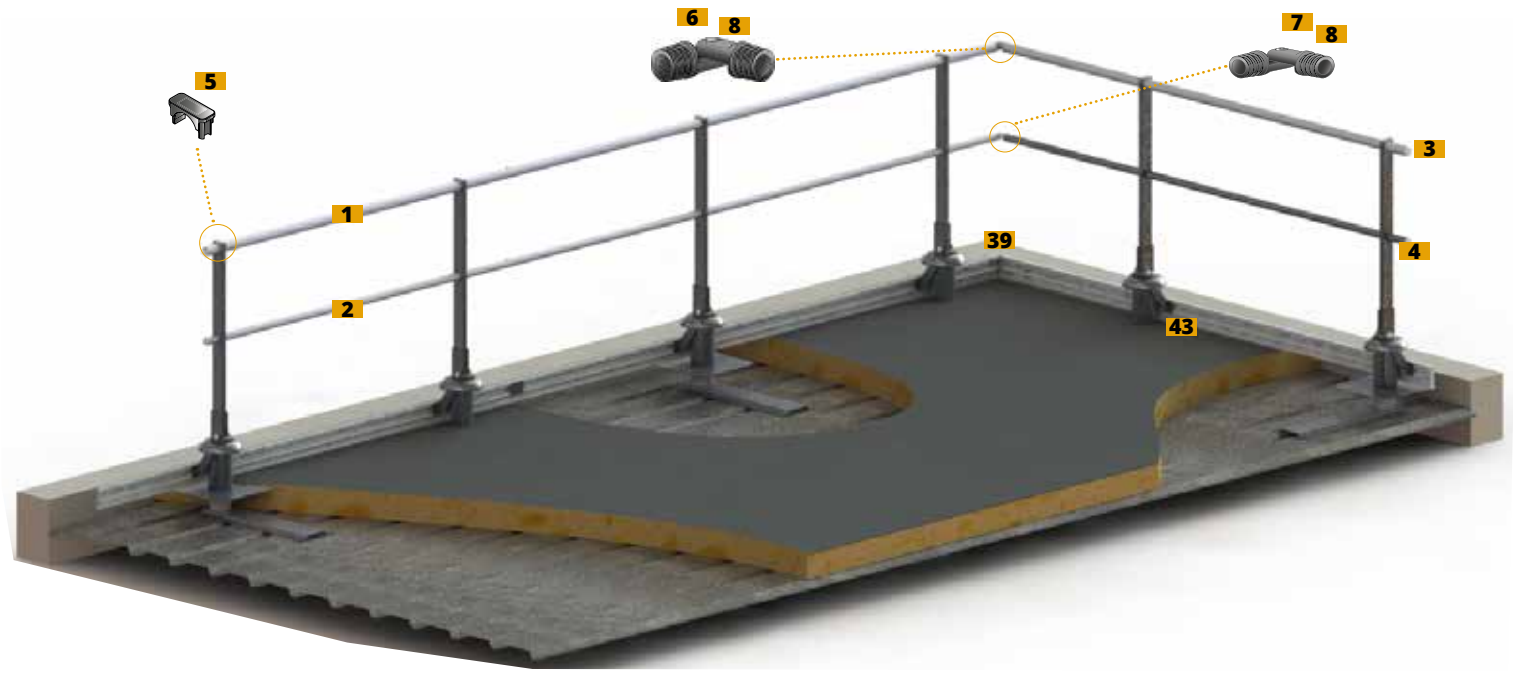


Configurations


Straight upright


Angled upright


Folding upright



enjoy safety.

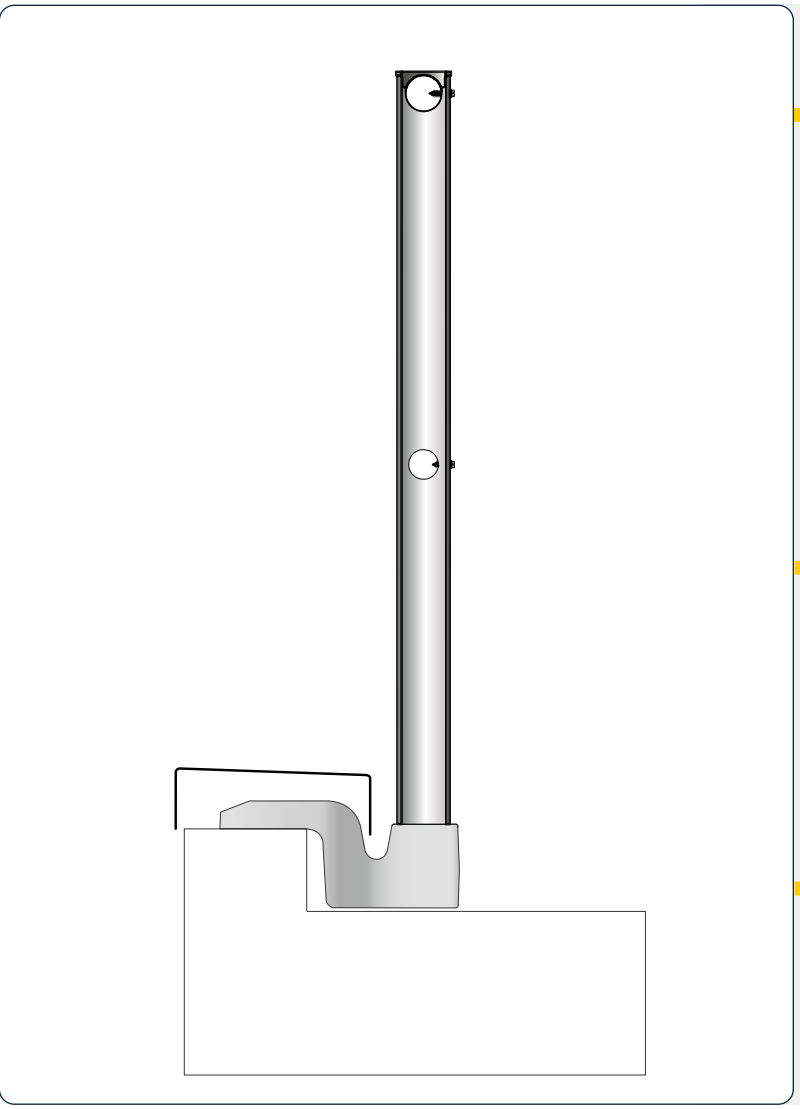
Guardrail on parapet

ALU

INOX

EN 14122-3 : 2017

*NTC 2018
*DIN EN 13 374
please enquire



Bases



Uninsulated parapet
Fasteners not included

Insulated parapet, up to 70mm
Fasteners not included

Insulated parapet, up to 100mm
Fasteners not included

Insulated parapet, up to 130mm
Fasteners not included

Insulated parapet, up to 160mm
Fasteners not 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 insulation
- on metal parapet : 6 to 8 self-drilling screws
- on wooden parapet: 2 or 3 M10 lag screws.

Installation configurations



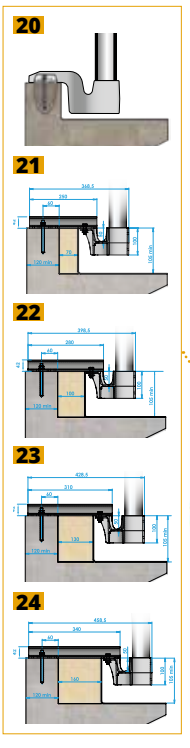
Straight upright

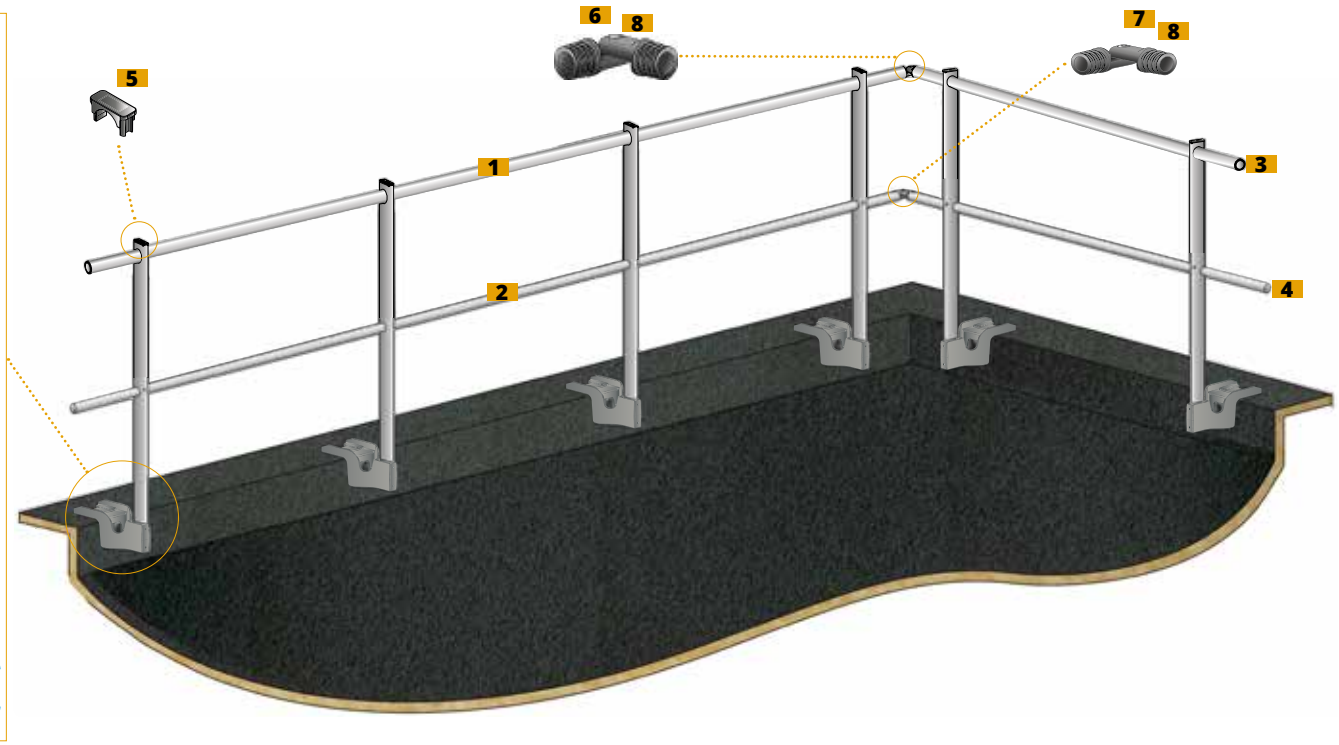


Angled upright



Folding upright





Flat and surface-mounted guardrail



Bases



Flat base
Fasteners not included



Surface mounted base with 60 mm offset
Fasteners not included



Surface mounted base with 95 mm offset
Fasteners not included



Surface mounted base with 116 mm offset
Fasteners not 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-HY 200-A
- mechanical solution of the HSA M10x98 35/25/- segment dowels type

Configurations



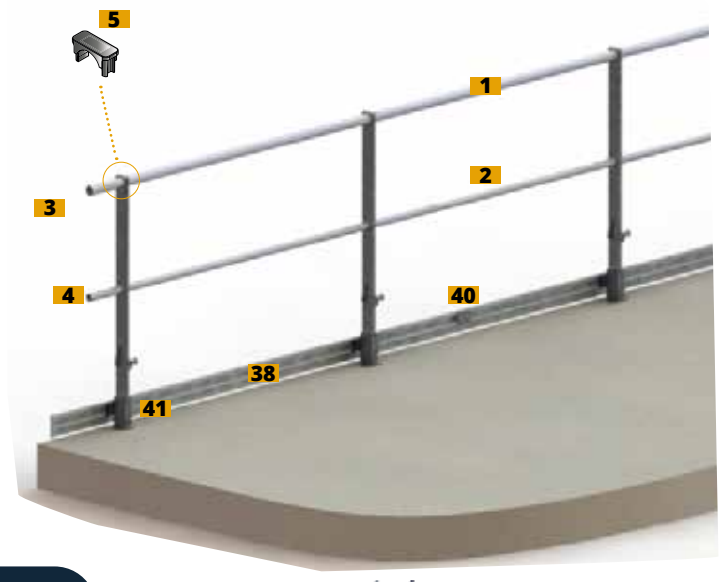
Straight upright

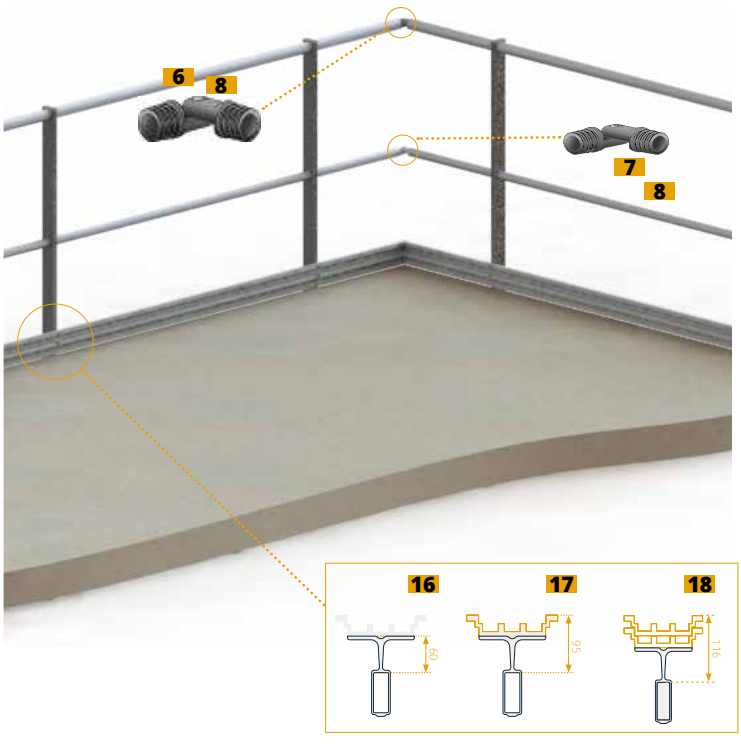


Angled upright



Folding upright

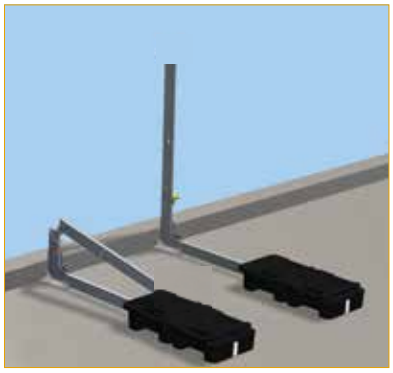
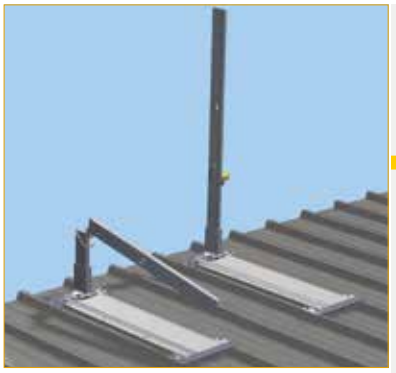
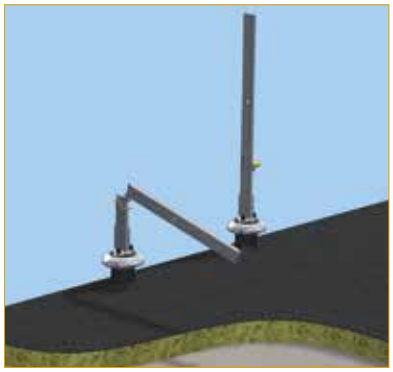


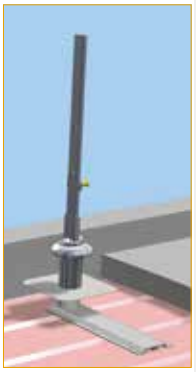
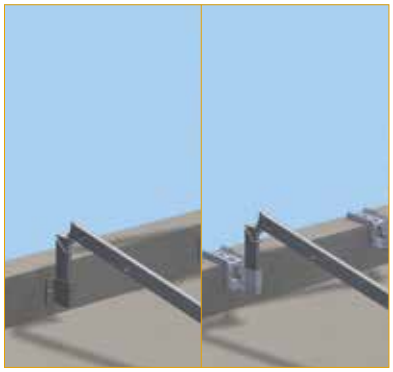
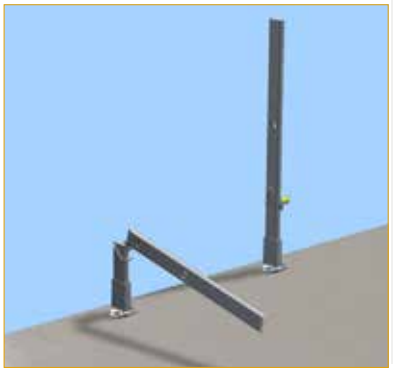


enjoy safety.

Folding guardrail

ALU INOX EN 14122-3 : 2017 NTC 2018 DIN EN 13 374 please enquire

Benefits

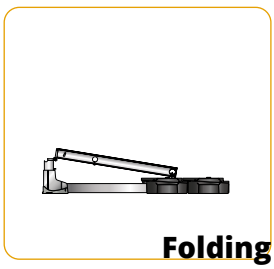
The folding system for EVO railings can be installed on our entire collective protection range.
It protects the appearance of a building by folding down and being invisible when the edifice is seen from the outside. This module can be folded by a single worker up to 12 metres and can thus make the roof safe in no time for workers.

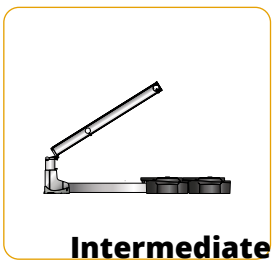
Versatility
One system, three positions
Folded: aesthetic and unobtrusive, the railing is no longer visible from the outside
Intermediate: the zone to be made safe is visible and demarcated. The risk of tripping is reduced and the railing remains invisible from the outside
Straight: operational position, where the system keeps workers safe.

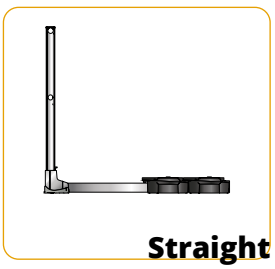
Easy handling
Rails and mid rails in 3 metre lengths supplied in bundles of 7 units

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

ONE SYSTEM, THREE POSITIONS


Folding


Intermediate


Straight

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.

HOW IT WORKS









Protection for rooflights



Benefits

Protected waterproofing
No need for drilling the roof.

Safety
Each 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 structure.

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



Model 1



Model 2



Model 3



Optional: gate

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
After removing or opening the dome, install horizontally from the outside, inside the hopper.

Safety
Fixed fall-protection grating and fastening brackets (10/10th thick) in galvanised steel.
90 x 90 mm mesh.

WVGRFIX100: 904 x 904 mm grids for 1000 mm hoppers

WVGRFIX200: 2074 x 2704 mm grids for 2200 mm hoppers (maximum permissible size).

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 galvanised steel.
100 x 100 mm mesh.

WVGRTRANS: 3004 x 1504 mm gratings

ROOF LIGHTS: UNIVERSAL BAR SYSTEM


Fixed


Central mechanism


Lateral mechanism

1200 joules resistance
Tested according to the recommendations of MR72 of CRAM, and the test protocol of GIF (March 1997).

TRANSLUCENT ELEMENTS: FASTENING



Fastening on the steel deck corrugation adjacent to the translucent element

The grating dimensions are to be defined by:

L = width of translucent element
e = centre distance of corrugations
+ length to cover

Vertiladder



Benefits

Long life
Made entirely from 6063-T5 aluminium: an attractive, lightweight material that guarantees excellent durability.

Ease of installation
The design of the standard mounting brackets and brackets has been optimised so that they can be fitted to the ladder section in a single step and secured with a single nut.

Versatility
A comprehensive range offering a multitude of combinations to adapt perfectly to your on-site requirements.

ACCESSORIES

Access restriction
Intrusion protection



WV650003
Complete blocking door, type A+B



WV650000
Blind door Type A



WV650002
Type B half-door (blocking door)



WV650001
Intrusion delay device

Parapet passage, gate & exits



WV6240190
190 mm landing step



WV6240695 / WV6240920 / WV6241145
Outlet sizes of 695, 920 or 1145 mm
(Wider outlet sold separately)



WV6231890
Extended outlet only

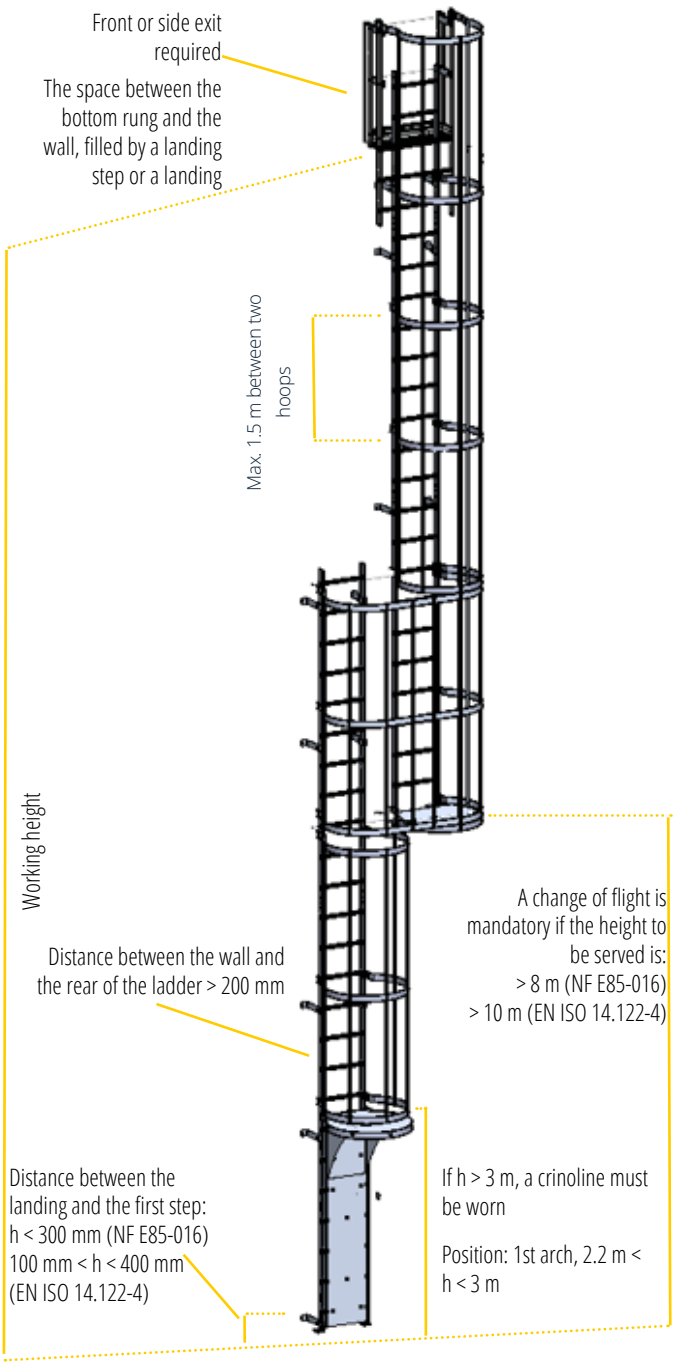


WV620001
Self-closing magnetic gate



WV620002
Half-height gate with automatic magnetic closure

Ladder with safety cage



LIST OF PARTS



Ladders
WV6101960/WV6102800/ WV6103920
Available in: 1960, 2800, 3920 mm



Ladder connecting sleeves
WV611000
Supplied in pairs – fixings included



Plug
Z2SYS612000



Fastening on cladding
WV630004
Fixings included



Standard fastening brackets
WV630001
Length: 2000 mm
Delivered in pairs - fixings included



Adjustable fastening brackets
WV630003
Length 214 to 470 mm
Delivered in pairs - fixings included



Telescopic brackets
WV630005 / WV630000
400–600 mm / 600–1000 mm
Supplied in pairs – fixings included



Longitudinal bar
Z2SYS6472800
Length: 2800 mm



Bars
WV646450
Fixings included



Change in flights bar
WV6481200
Fixings included



Stair landing replacement
WV648000
Fixings included



Ladder feet
WV811001



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 waterproofing
The bases are treated 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

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

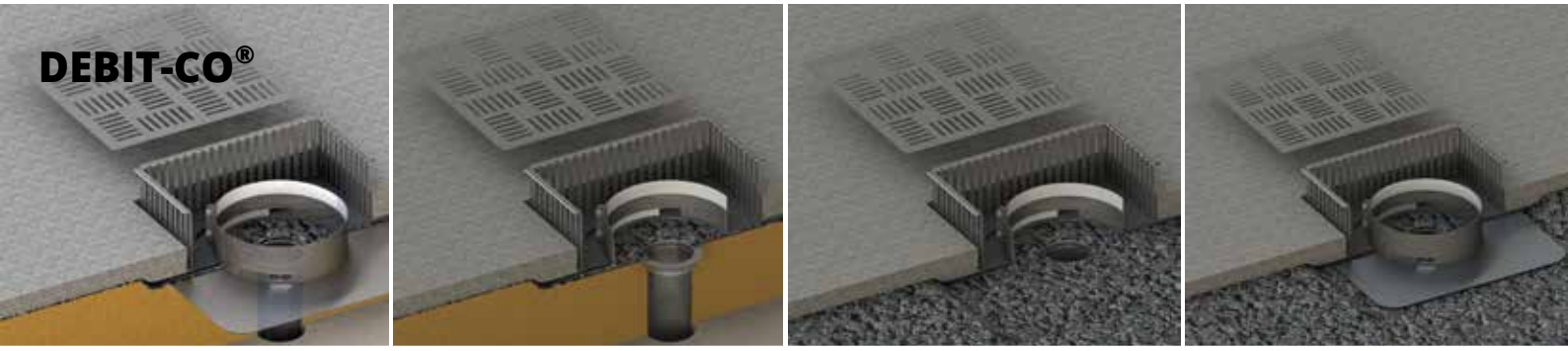
Versatility
Allows you to directly hang all types of ladder

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

1 WVCRO **2** WVCROSTD **3** WVCROREG

Supports, embellishments & waterproofing accessories

ALU



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

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



HA203FS
Pair of femoral anti-compression straps
Adaptable to all types of harness by placing on the lateral straps
Easy and speedy installation



2 SELF-RETRACTING FALL ARRESTER

AN108S
MEDBLOC 6M
25mm polyester webbing
Swivel with fall indicator
Easy to carry and set up
Tested to 130 kg



AN181C20 / 30
PROTECTOR large 20m ou 30m
Galvanised steel cable with integrated energy absorber
Fall indicator
Inertia locking system
Tested to 150kg



AN181CW20 / 28
PROTECTOR TETRA 6m ou 8m
Stainless steel cable
Rescue system with hand crank
Compatible with TRA22 and TRA32
Tested to 150 kg



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



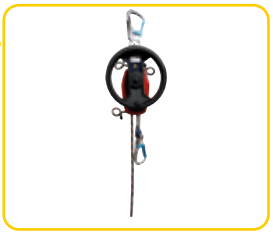
enjoy safety.

Personal protective equipment

5 RESCUE

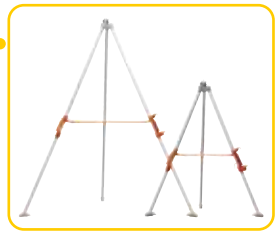
TC065 & TC066

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



TRA32

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



6 ACCESSORIES

PLATINIUMPEAKT2

Construction helmet
Compact, high-performance Type 2 construction helmet. Available in ventilated or non-ventilated versions (electrically insulated). Rotor fastening system, integrated 4-point chin strap.



RA008

Storage bag
Bag for storing and protecting equipment
Dimensions: 30x66 cm



TC008

42L PVC STORAGE BAG
PVC canvas bag for storing & protecting equipment
Expandable by 10L
Dimensions: 30x65 cm





DELTAPLUS

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