



TECHNICAL FILE

LADDERRAIL



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Vertical rail system

LADDERRAIL

PRODUCT ADVANTAGES

The LADDERRAIL vertical rail system is a personal fall protection solution for safety at great heights.

Ease of use

Up to 3 simultaneous users possible.
Certified with absorber with sternal
connection, for vertical use.

Design

High quality finishes & various
anodising options available.

Safety

Certified up to 150 kg (operator &
tools included).

Great fluidity

while ascending and descending.

Convenience

The carriage can be inserted and
removed at any point on the rail.
Asymmetrical rail profile to ensure
that the carriage is inserted in the
right direction.





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PRESENTATION

Our teams went to meet operators in the telecommunications and wind energy sectors. The LADDERRAIL, the solution for securing very great heights, was born from listening and analysing their problems.

TECHNICAL CHARACTERISTICS

- Materials: aluminium alloy and A2 screws
- LDRS carriage: can be used on inclined structures up to 15° lateral and 45° frontal.
A simple downward pull automatically locks the carriage in its position

CONFORMITY

- EN 353-1: 2014 + A1 2017
- EU regulation 2016/425
- EU type examination certificate issued by:
QUINTIN CERTIFICATIONS (no. 2927)
825 route de Romans – 38160 Saint Antoine
l'Abbaye – France
- Production monitored by:
APAVE EXPLOITATION FRANCE SAS (n°0082)
6 Rue du Général Audran - 92412 COURBEVOIE
cedex – France
- Download the LDRS declaration of conformity via
this QR Code



REMINDER OF THE STANDARDS

It is only when it is technically impossible to implement collective protection that it is possible to envisage recourse to individual means of protection against falls from height (Labour Code R4323-61).

Personal protective equipment can also be used to complement collective protection. Indeed, the use of this type of protection notably imposes the following organisational constraints:

- the definition, installation and choice of the type of equipment (lifeline, anchor point, etc.),
- work with a minimum of two people,
- definition of a rescue plan,
- instructions for implementation and use,
- staff information and training,
- periodic checks,
- meteorological conditions.

For information, extract from recommendation R430 - INRS/CNAMTS:

For buildings of any kind to be constructed, the technical provisions to facilitate the prevention of falls from height during subsequent work on the building should be included in the design.

The reason of technical impossibility cannot therefore be considered, as it is now up to the client to modify his project so that there is no unresolved situation, at least, with the implementation of collective protection.



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In enforcement of Regulation 2016/425 of the European Parliament and of the Council of 9th March 2016 on Personal Protective Equipment and repealing the Directive 89/686/EEC and in compliance with the Module B Certification programme QUINTIN CERTIFICATIONS "QC-214-V1"

En exécution du Règlement 2016/425 du Parlement Européen et du Conseil du 9 mars 2016 relatif aux Equipements de Protection Individuelle et abrogeant la Directive 89/686/CEE et en respect du Programme de Certification Module B de QUINTIN CERTIFICATIONS « QC-214-V1 ».

QUINTIN CERTIFICATIONS, notified body identified under number 2927, awards the EU TYPE-EXAMINATION CERTIFICATE

QUINTIN CERTIFICATIONS, organisme notifié identifié sous le numéro 2927, attribue l'Attestation d'examen UE de type

N° 2927/0022/160/02/22/0001

The following PPE type complies with the applicable essential health and safety requirements
Le type de l'EPI suivant est conforme aux exigences essentielles de santé et de sécurité applicables

PPE EPI	Category III – PPE against fall from height Catégorie III – EPI contre les chutes de hauteur
TYPE Type	Guided type fall arresters including rigid anchor line Dispositif d'ancrage type B/ E / Antichute mobile sur support d'assurage rigide
Technical referential Référentiel technique	EN353-1 :2014 + A1 :2017 Equipment also tested according to the relevant requirements of the European Coordination sheets PPE-R 11.116 [version2] and PPE-R11.119 [version 1] Equipement également testé selon les exigences applicables des fiches de coordination Européenne PPE-R11.116 [version2] et PPE-R 11.119 [version 1]
Trademark : Marque commerciale	DELTA PLUS
	Model : LADDERRAIL + LDRS Modèle
Reference : référence	Antichute mobile LDRS sur support d'assurage LADDERRAIL
Manufacturer: Fabricant	DELTA PLUS

Description : **Mobile fall arrester:** mobile opening fall arrester ref LDRS in aluminum connected by a shackle ref 710010 to a textile energy absorber ref 710087 integrating an aluminum connector with pin ref 710053.
Rigid anchor line: rigid anchor line ref LADDERRAIL composed of an aluminum profile intended to be fixed on ladder rungs by fastener callpers ref LDRSUPECH spaced no more than 1680 mm. The junction of 2 rails is done via the junction ref LDRECL positioned at maximum 300 mm under a fastener callper.
Orientation of use: vertical with a leaning angle from 0° to 15° and forward leaning angle from 0° to 45°. Use by 3 simultaneous people of minimum mass 50 kg and maximum 150 kg.
Antichute mobile : antichute mobile ouvrable réf LDRS en Aluminium relié par une manille lyre réf 710010 à un absorbeur d'énergie textile réf 710087 intégrant un connecteur à barrette en aluminium réf 710053.
Support d'assurage rigide : support d'assurage rigide LADDERRAIL composée d'un profil aluminium destiné à être fixé sur des barreaux d'échelle par des étriers de fixations réf LDRSUPECH espacés de 1680 mm maximum. La jonction de 2 rails se fait par l'intermédiaire de l'éclisse LDRECL positionnés à maximum 300 mm sous un étrier de fixation.
Orientation d'utilisation : verticale avec un angle d'inclinaison latérale de 0° à 15° et vers l'avant de 0° à 45°. Utilisation par 3 personnes en simultanées de masse minimale 50 kg et maximale 150 kg.



Detailed description in EU type examination report : RQC2022-012-1.
Description détaillée dans le rapport d'examen UE de type

Date of issue (day/month/year): 01/02/2022
Date de délivrance (jour/mois/année)
Date of renewal (day/month/year): 1st edition
Date de renouvellement (jour/mois/année)
Date of expiry (day/month/year): 31/01/2027
Date d'expiration (jour/mois/année)

The Head of QUINTIN CERTIFICATIONS
Le gérant de QUINTIN CERTIFICATION
Signature : 01/02/2022

G. QUINTIN
Validation électronique

For category III PPE, the certificate shall only be used in conjunction with one of the conformity assessment procedures referred in point c) of Article 19
Pour les EPI de catégorie III, l'attestation ne doit être utilisée qu'en liaison avec l'une des procédures d'évaluation de la conformité visées à l'article 19, point c).
The manufacturer shall inform the notified body of all modifications to the approved type and of all modifications of the technical documentation that may affect the conformity of the PPE with the applicable essential health and safety requirements or the conditions for validity of that certificate (article 7.2 – annex V)
Le fabricant informe l'organisme notifié de toutes les modifications du type approuvé et de toutes les modifications de la documentation technique qui peuvent remettre en cause la conformité de l'EPI aux exigences essentielles de santé et de sécurité applicables ou les conditions de validité de cette attestation (article 7.2 – annexe V)
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SARL au capital de 10 000 € - SREN 848 919 676 - TVA intracommunautaire FR81848919676

QC-225-V1-trame AET module B / AET 2927_0022_160_02_22_001_DELTA PLUS.docx

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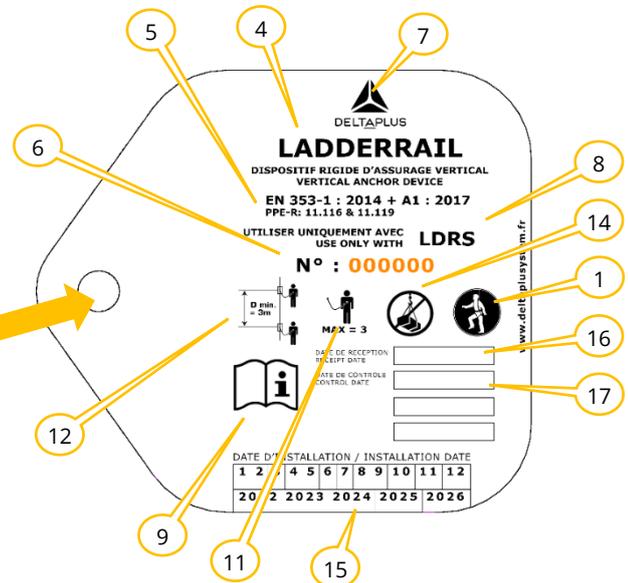
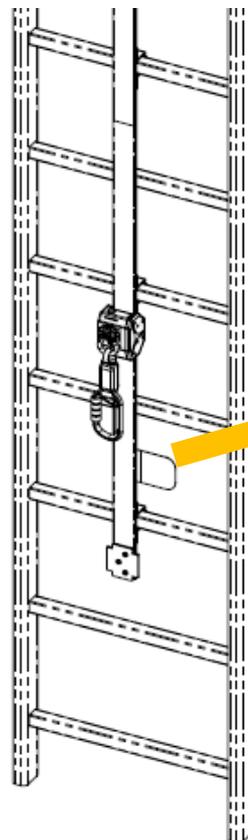
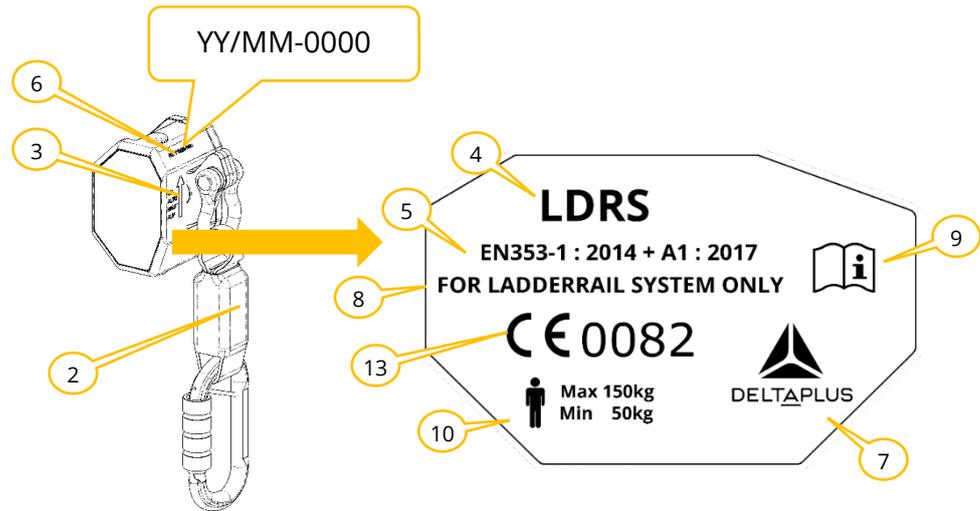


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- 1 Mandatory use of PPE
- 2 Product expiry date
- 3 Direction of use
- 4 Product reference
- 5 Standard to which the equipment conforms
- 6 Serial number
YY: Year
MM: Month
0000: Single number
- 7 Name of the manufacturer
- 8 Compatible component
- 9 Pictogram inviting to read the instructions
- 10 Minimum and maximum rated loads
- 11 Maximum number of people allowed to connect simultaneously
- 12 Safety distance between 2 users
- 13 Notified body in charge of production control
CE 0082 - APAVE EXPLOITATION FRANCE SAS
6 Rue du Général Audran - 92412 COURBEVOIE cedex - France
- 14 Do not use for lifting
- 15 Date of installation
- 16 Date of use
- 17 Date of periodic inspection

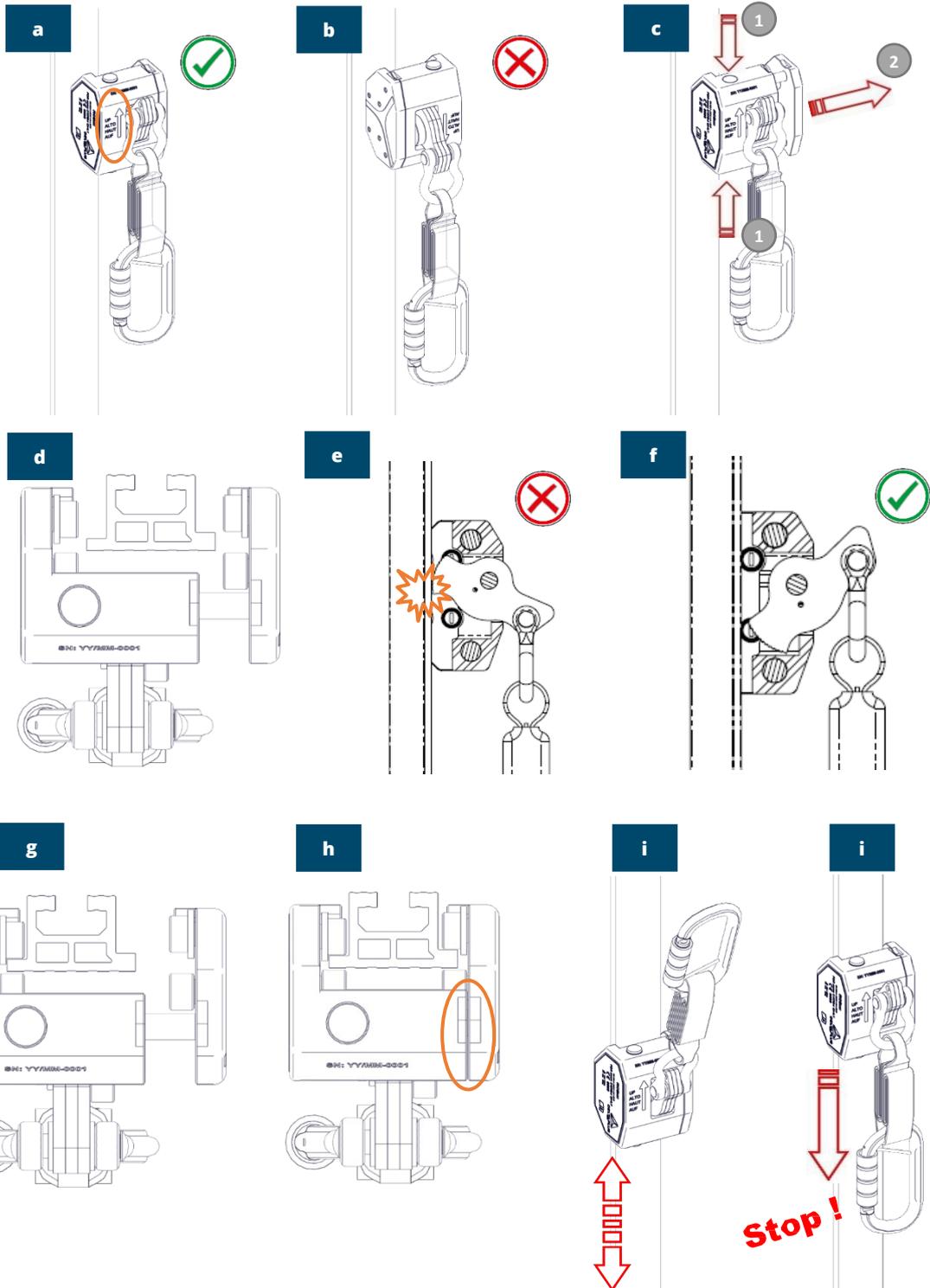




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USE

The system is certified for use on any rigid vertical structure, aluminium or steel ladders with minimum resistance of 12kN and deviating from the vertical by no more than 15° laterally and 45° forwards. Any other use is prohibited and can be dangerous

These instructions are intended for users of the fall arrest system **LADDERRAIL** and its support **LADDERRAIL**. It must be read and understood by each person before using the product. If you have any doubts, problems of understanding, or if a problem arises that is not covered in this document, please contact your Delta Plus Systems representative or the Delta Plus Systems technical department directly. These instructions must always be available and accessible to the user. If the product is resold outside the first country of destination (France), it is essential for the safety of the user that the dealer provides the instructions for use, maintenance, periodic examinations as well as instructions for repairs, written in the language of the country where the product is used. Any activity at a height is dangerous and can cause accidents, serious injury or death. The practice, as well as learning the techniques of using the appropriate equipment, is your responsibility. Before using the product, you must therefore read and understand all the information contained in the instructions for use. Non-compliance with any of these warnings may result in serious injury or death. For safety reasons, the user must be in good health, not under the influence of medication, alcohol or drugs. Workers using personal protective equipment should receive training.

Instructions for use

& technical description

The PPE consists of a mobile fall arrester reference **LADDERRAIL** and an aluminium vertical anchor line reference **LADDERRAIL**. The product is EN 353-1 certified: 2014 + A1 2017 and the additional PPE-R11.116 and PPE-R11.119 sheets

This device allows movement and protection against falls from height, both while ascending and descending.

The temperature of the work environment must be greater than -30°C, not recommended for use in stormy weather.

The anchor line **LADDERRAIL** may only be used with the mobile fall arrester **LADDERRAIL**. The user must connect his harness in accordance with EN 361 via the sternal point of attachment to the carriage using the connector integrated into the carriage in **LADDERRAIL** accordance with EN 362.

The connector includes a textile energy absorber to limit the impact force in the event of a fall. **ATTENTION** the length of the connector should neither be extended, nor be shortened, for example, by adding or removing a connector.

The fall arrester connects and disconnects at any point of the system. These actions must be carried out in a safe position or using a separate personal protection system.

Present the fall arrester in the correct direction of use (a) If the orientation is incorrect (b), it will not be possible to close the fall arrester on the belay system. Press the two buttons on either side of the fall arrester at the same time and pull the movable part of the fall arrester (c). Keep the fall arrester open and insert it onto the rail (d). If the locking cam is turned down (e) the fall arrester cannot be inserted properly, raise the cam (f).



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Engage the left-hand part of the fall arrester on the rail (g) and then guide the sliding part back, ensuring that the fall arrester is closed properly. There must be no visible gap between the two parts of the fall arrester and the locking buttons must be back in position (h). Make sure that the carriage runs smoothly on the rail (i). Pull the connector down and make sure the carriage is locked (j)

The fall arrester has been designed to move freely on the rail without manual intervention. Holding the locking mechanism or manipulating the carriage during movement may prevent it from locking in the event of a fall. Do not hold the fall arrester.

The mobile fall arrester is designed to be used by one person with a minimum weight of 50 kg (excluding tools and equipment) and a maximum weight of 150 kg including tools and equipment. The equipment must not be used beyond its limits, or in any situation other than that for which it is intended.

The anchor line is designed to be used simultaneously by three people, each of whom must have his or her own personal fall arrester **LADDERRAIL** and must maintain a minimum safety distance of 3 metres between them. There is no limit to the length of the anchor line. All points on the rigid anchor line, at which the mobile fall arrester could exit from the anchor line must be equipped with an LDREXTF stop. After use, never leave the fall arrester connected to the rail, clean it (see § Maintenance) and store it in the waterproof bag provided. Make sure to protect it from shocks, humidity and excessive temperatures (-10°C / +40°C) during transport or storage.

The rigid anchor line may not be used in a rescue situation. Operations should be carried out using a separate personal protection system.

Important - Prevention

Before use

When you are at a height, your life depends on the equipment you use. Any doubts about the safety of the device should be reported to the manufacturer and the person responsible for the installation.

A fall arrest harness conforming to EN 361 is the only body-gripping device that may be used in a fall arrest system. A harness should be size appropriate, properly adjusted and fitted to the user's height

The fall arrest harness should be properly adjusted to fit snugly and should not be used if it is loose. If the harness becomes loose while in ascending or descending, it should be properly readjusted from a safe location.

The durability of the line must be checked in accordance with the use.

A rescue plan should be in place to deal with any emergencies that may arise during work.

In a fall arrest system, it is essential to check the clearance under the user before and during use, in order to avoid any collision with the ground or an obstacle during the fall. In the system **LADDERRAIL** this space must be at least 2 m. Before this height, the air draft is insufficient, the user may not be protected from falling back to the ground. Special attention should therefore be paid to this phase.

The fall arrester must not be used in a working position. A separate system should be used if work positioning is necessary.

A hazard may arise when using several pieces of equipment in which the safety function of one piece of equipment may be affected by the safety function of the other.



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CAUTION DANGER: Make sure that your equipment does not rub against abrasive materials or sharp parts that could damage its integrity, especially the textile energy absorber

As the fall arrester is delivered with its own connector, it is not possible to change the components independently.

Use only Delta Plus Systems parts to ensure compatibility of parts when assembling the system. The fall prevention function is only provided in one direction. It is essential to observe the direction of installation (arrow on the carriage pointing upwards).

Control - Points to be checked

Ensure that the instructions for using the lifeline are posted on the signpost.

Make sure that the fall arrest system you have is compliant and compatible with those recommended for use of the rail **LADDERRAIL**.

Make sure that the product markings are legible.

Ensure that the periodic checks and maintenance of the lifeline are up to date.

Carry out a visual and functional check of the entire lifeline. Use the System Identification and Verification Sheet **LADDERRAIL** to perform these checks.

After a fall or in case of doubt, do not use the anchor system or the fall arrester again until it has been checked and brought back into conformity by a competent person authorised by the manufacturer.

Before each use, check the following items:

- ▶ The general condition of the product: no cracks, shocks, etc.
- ▶ Expiry date of the absorber
- ▶ No hard spot in the moving parts of the fall arrester

- ▶ Connector locks automatically
- ▶ The fall arrester opens without a hard spot and closes automatically
- ▶ Good condition of the castors.

In case of doubt, take the product aside for a thorough check using the equipment identification and verification sheets.

In case of non-compliance, destroy these products to avoid future use.

Life span - Disposal

For Delta Plus Systems' plastic and textile products, the maximum lifespan is 10 years from the date of manufacture. It is not limited for metallic products.

CAUTION, an exceptional event may lead you to dispose of a product after single use (type and intensity of use, environment of use: aggressive environments, marine environment, sharp edges, extreme temperatures, chemical products, etc.).

A product must be disposed of when:

- ▶ It is over 10 years old and made of plastic or textile.
- ▶ It has had a major fall (or blow).
- ▶ The result of the product verification is not satisfactory.
- ▶ You doubt its reliability.
- ▶ You do not know its full usage history.
- ▶ Its use is obsolete (legislative, normative, technical evolution or incompatibility with other equipment, etc.).

Destroy such products to prevent future use.



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System warranty

The products are guaranteed against any material or manufacturing defect for a period of 10 years from the date of delivery for metal parts, the guarantee is 2 years for other parts (textile, plastic, electrical and electronic components, ...) provided that the annual maintenance has been performed by a company approved by Delta Plus Systems.

Delta Plus Systems guarantees this product against material or manufacturing defects. The following are excluded from the warranty: normal wear and tear, oxidation, modifications or repairs, improper storage, improper maintenance, damage due to accidents, negligence, or use for which the product is not intended.

Maintenance and service

Any modification or addition to the equipment without the prior written consent of the manufacturer is prohibited.

Any repairs to system components must be carried out in accordance with Delta Plus Systems procedures. If in doubt about the condition of the product, replace it with an original Delta Plus Systems part.

A soiled product should be washed and rinsed with clean water and dried. It must not be in contact with corrosive or aggressive materials or stored at extreme temperatures. Any chemicals or solvents may affect the strength of the system components. If the product is likely to come into contact with these products, please let us know the exact name of the chemical components and we will respond after appropriate investigation.

It is mandatory to have the condition of the PPE checked at least every 12 months by an authorised and competent person in strict accordance with Delta Plus Systems' operating procedures. These periodic and regular inspections are necessary because the safety of the user is linked to maintaining the efficiency and strength of the equipment. The inspection and its results must be recorded in writing in a maintenance logbook using the identification and inspection sheet provided by Delta Plus Systems.

Delta Plus Systems can also assist you in the verification, control and maintenance of your permanent fall arrest and PPE systems. You can also ensure that your teams are well versed in the use of these fall arrest solutions as well as in the basics of working at heights in complete safety, by offering them comprehensive and personalised training courses, conducted by our training centre.



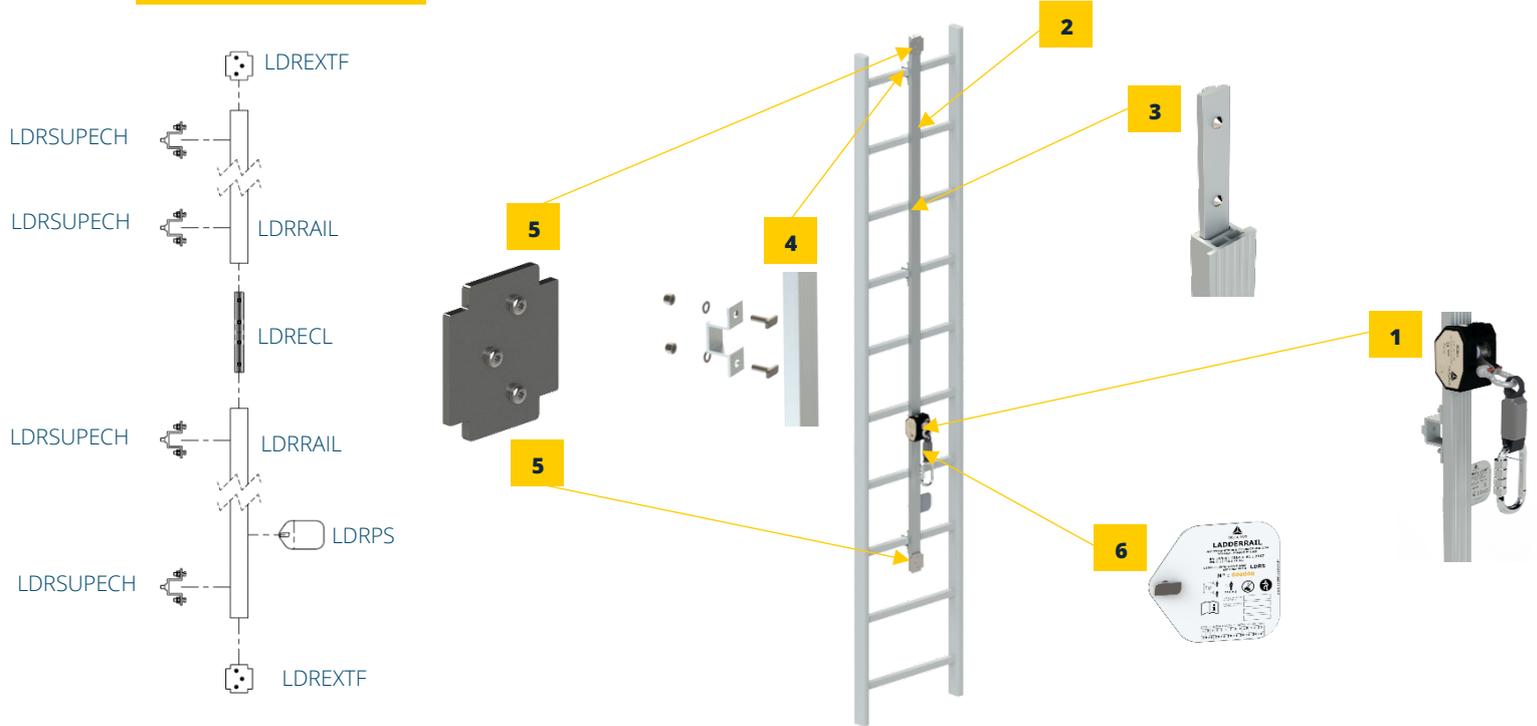
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Cidex 8F - 38190 BERNIN - France



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GENERAL NOMENCLATURE

	1		2		3		4
<p>Mobile runner WVLDRS Integrated shock absorber and carabiners - Aluminium alloy body</p>		<p>Fall arrest rail WVLDRRAIL Installation up to 45° forwards, 15° laterally</p>		<p>Joint bar WVLDRRECL Ensures alignment of rails 4 Vis M8 (A2) screws pre-coated with threadlocker</p>		<p>Fixing supports WVLRSUPECH Max. distance between centres: 1680 mm - Fixed with 2 M8 screws (A2)</p>	
	5		6				
<p>Stop WVREXTF Prevents the carriage from sliding off the rail - Fixed with 3 self-drilling screws (A2)</p>		<p>Safety panel WVLDRPS System identification and display of standard information - Fixed with 1 M8 screw</p>					



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TOOLS & PERSONNEL REQUIRED



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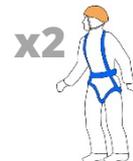
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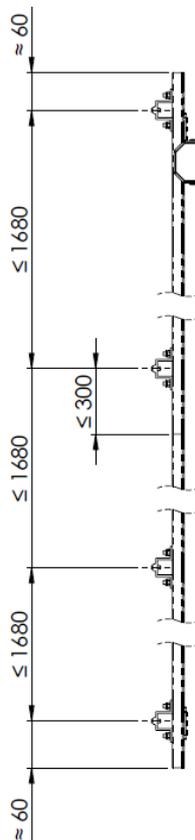


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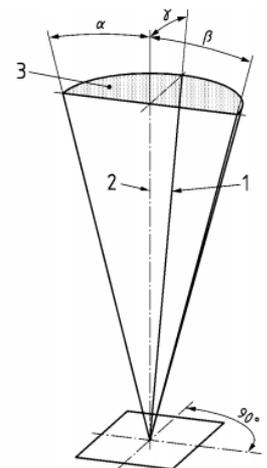
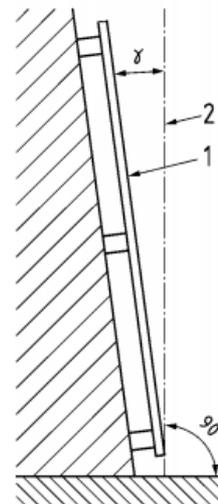
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PRE-REQUISITES



**F max =
1200 DaN**

α (alpha): $0^\circ \leq 15^\circ$
 β (beta): $0^\circ \leq 15^\circ$
 γ (gamma): $0^\circ \leq 45^\circ$



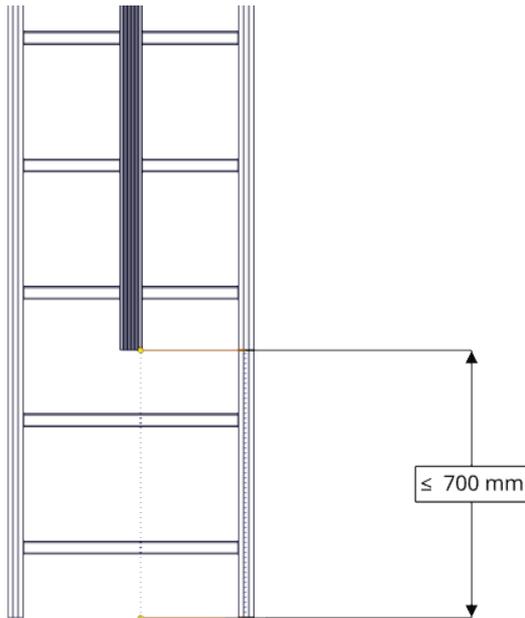


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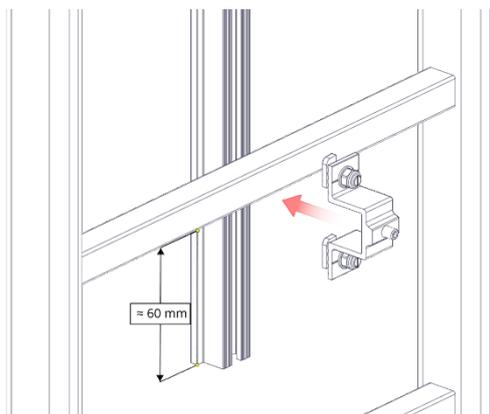
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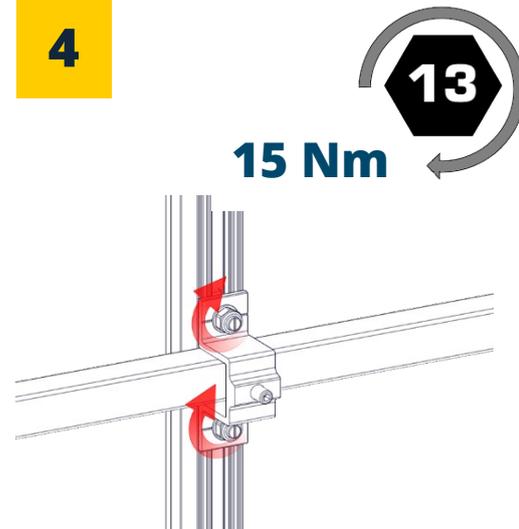
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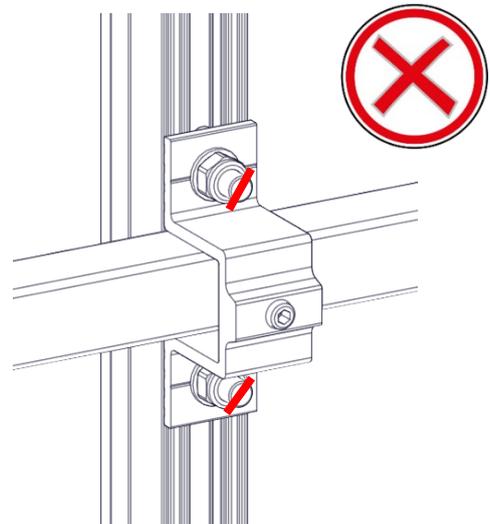
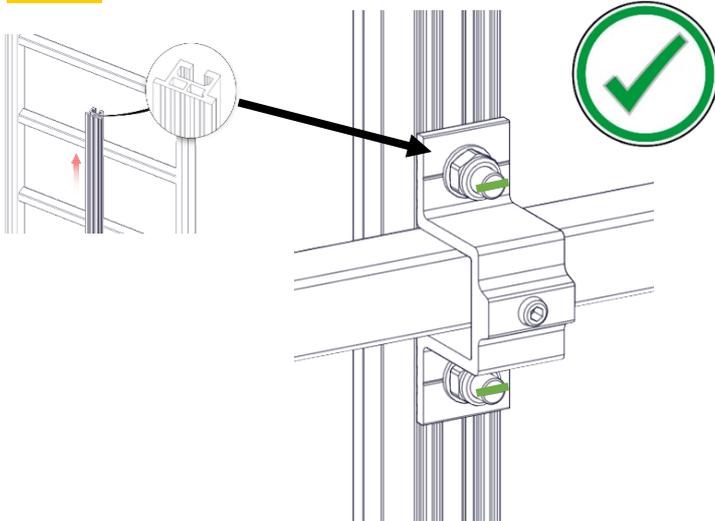


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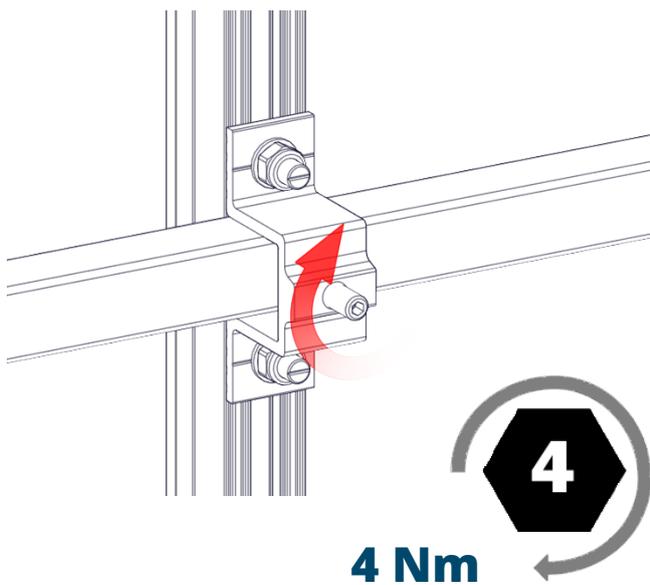
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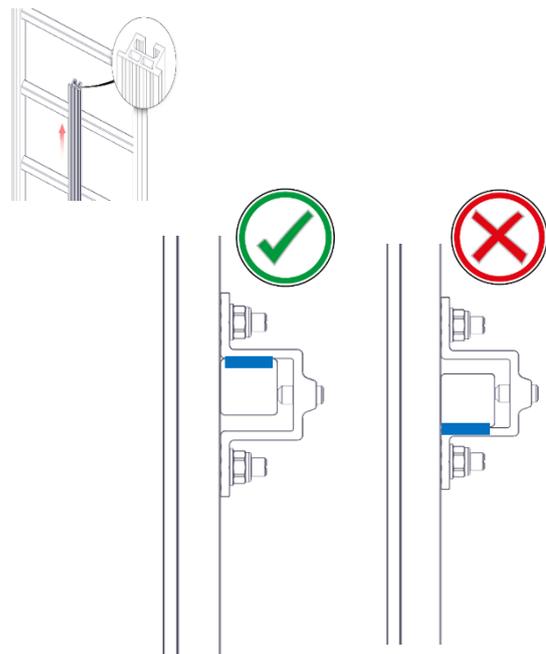
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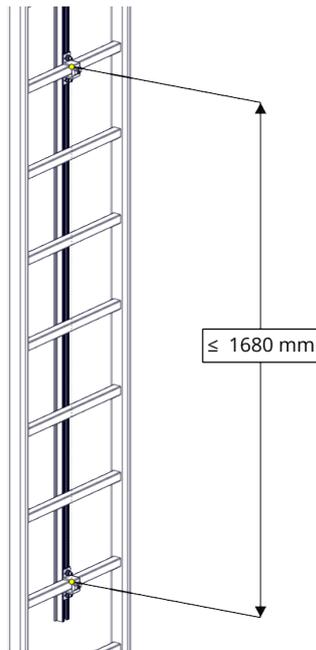


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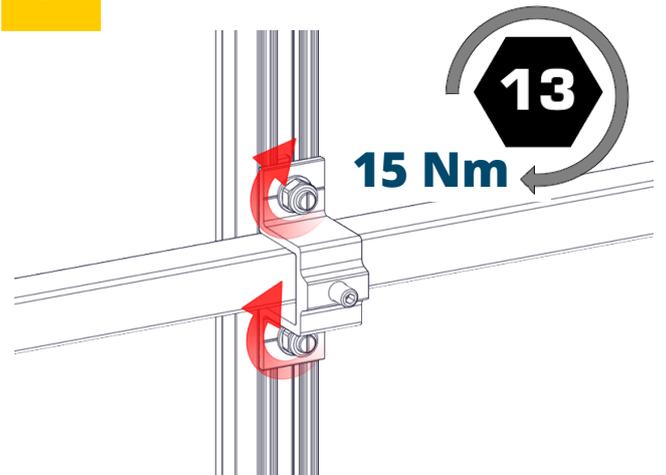
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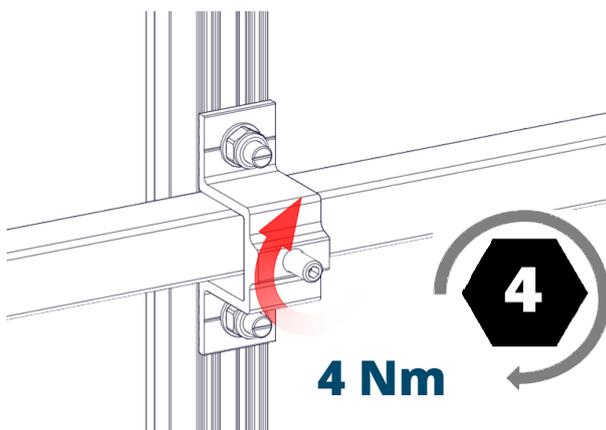
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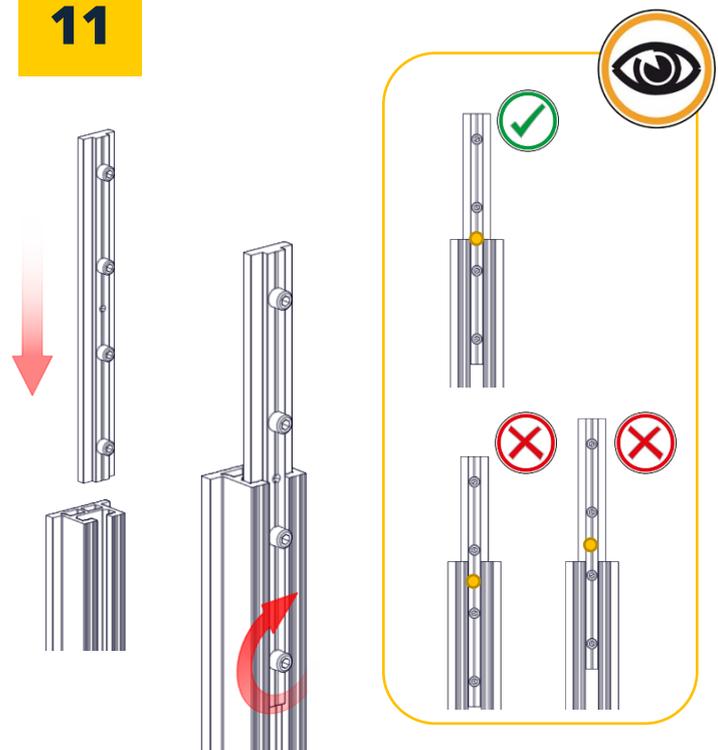
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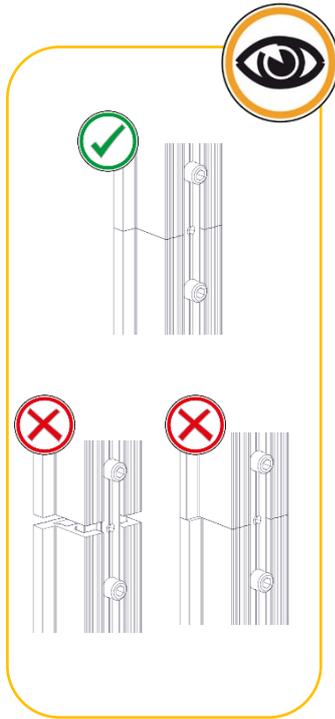
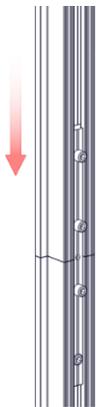


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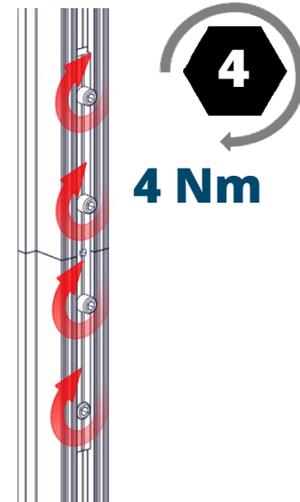
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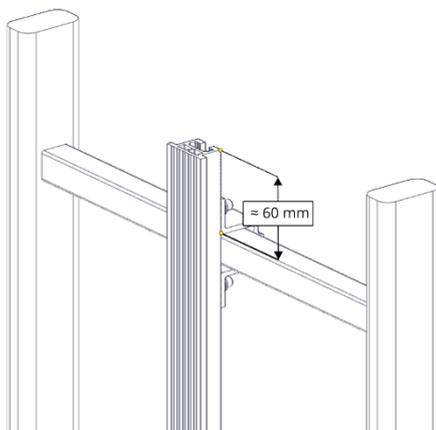
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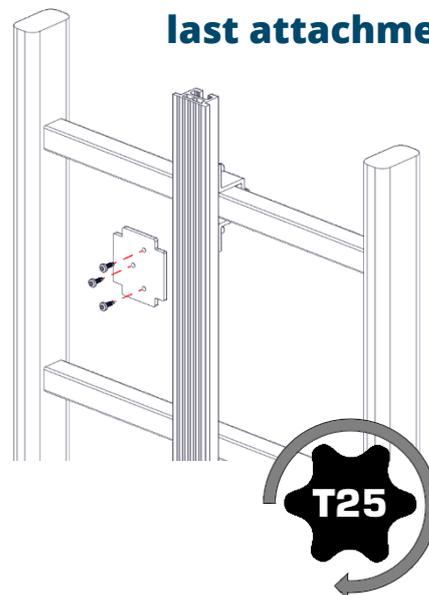
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The fall arrester must not be able to go beyond the last attachment

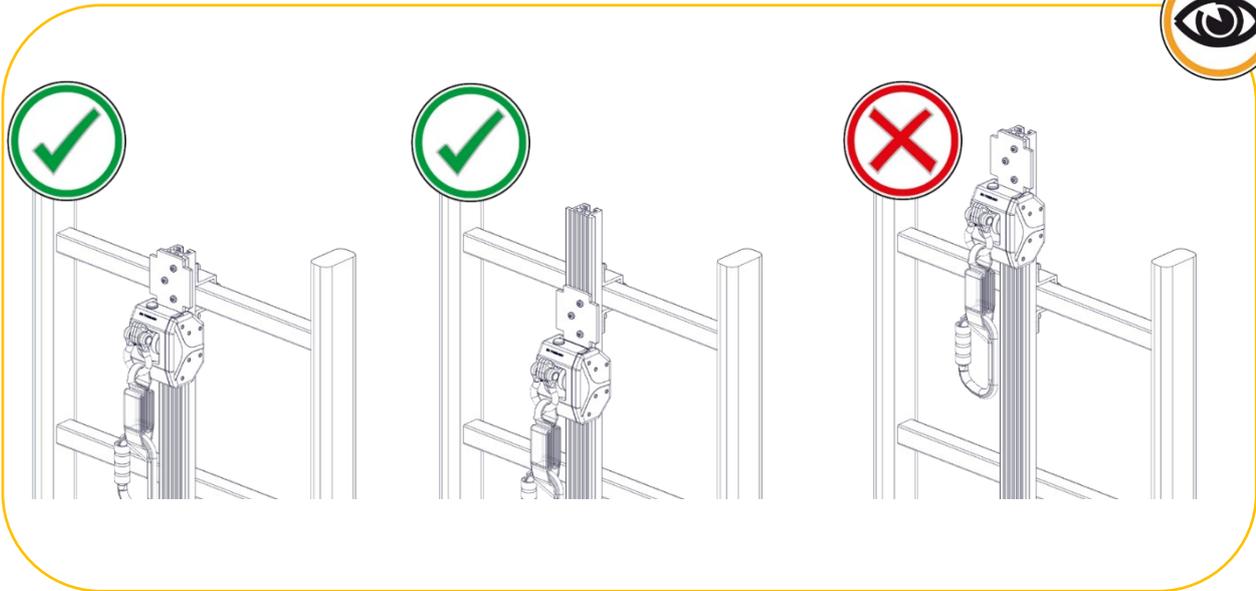




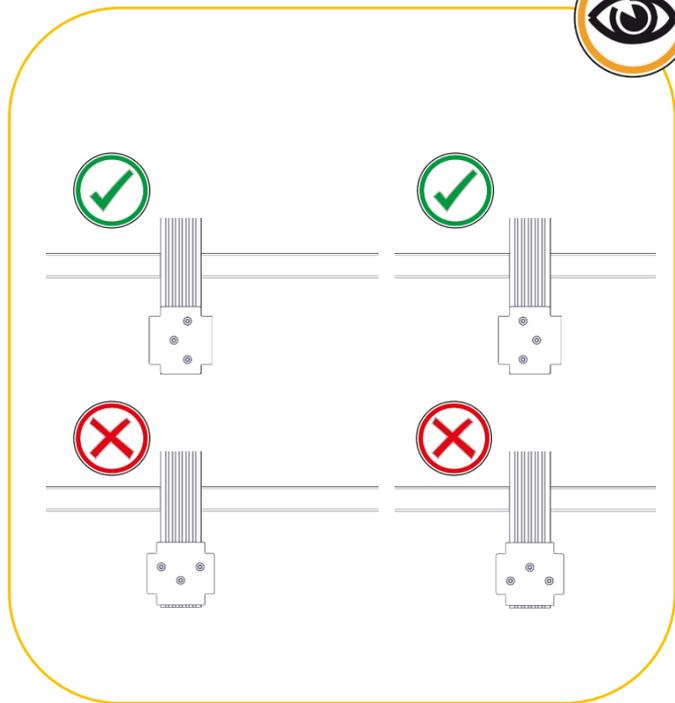
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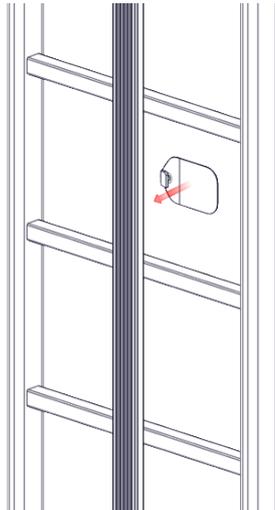


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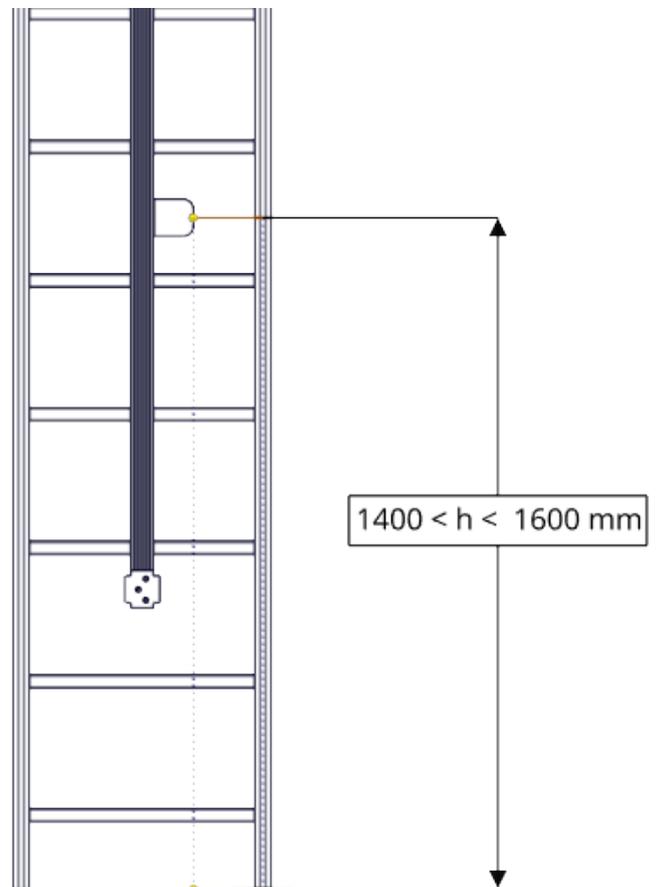
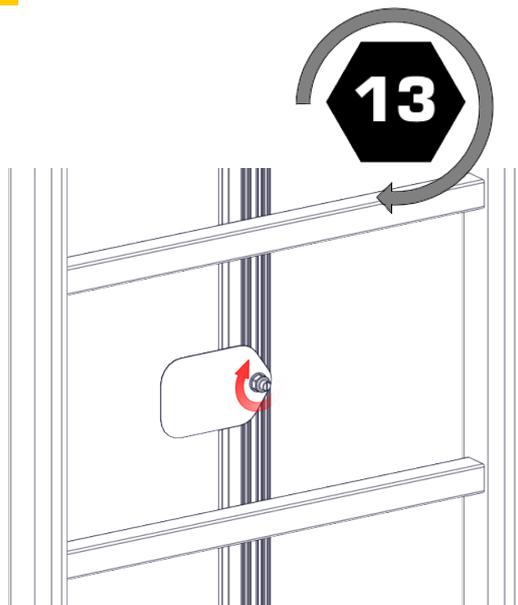
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Vertical rail system

LADDERRAIL

LADDERRAIL ANCHOR LINE

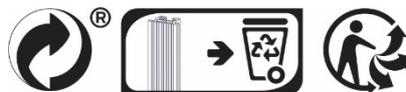
Product identification	
Manufacturer/ Supplier:	Delta Plus Systems
Product name/ Reference:	Anchor line – LADDERRAIL
Standard references:	EN 353-1:2014 +A1: 2017
Identification number	
Date of purchase:	
Date of first use:	



Installation manager's identification			
Name:		Company:	
User identification			
Name:		Address:	

The controller is not responsible for any inaccuracies in the information concerning the historical verification to be carried out by the user. The user is obliged to keep a complete history of the periodic examinations and repairs carried out.

Life span/ Disposal
<p>The products are guaranteed against any material or manufacturing defect for a period of 10 years from the date of delivery for metal parts, the guarantee is 2 years for other parts (textile, plastic, electrical and electronic components, ...) provided that the annual maintenance has been performed by a company approved by Delta Plus Systems. CAUTION, an exceptional event may lead you to dispose of a product after single use (type and intensity of use, environment of use: aggressive environments, marine environment, sharp edges, extreme temperatures, chemical products, etc.).</p> <p>A product must be disposed of when:</p> <ul style="list-style-type: none"> - It is more than 10 years old and is made of plastic or textile, except for the seals, which should be inspected regularly. - It has had a major fall (or blow). - The result of the product verification is not satisfactory. You doubt its reliability. - You do not know its full usage history. - Its use is obsolete (legislative, normative, technical or incompatibility with other equipment, etc.). <p>Destroy such products to prevent future use.</p>



Identification & verification



Distribué par

Comments

Good

To be monitored

To be repaired

To be scrapped

Visual inspection of components					
General condition of the aluminium rail (marks, deformations, corrosion, etc.)					
Condition of fasteners and anchors (tightness, etc.)					
The fastening interval of the rail anchors does not exceed 1.68 metres					
There is no play in the bolted joints and all screws are present and tight					
The bolted joints are maximum 300 mm below a bracket					
Presence of an end stop at each end of the rail					
The position of the stops does not allow the fall arrester to go beyond the last bracket					
Presence of the identification label with standard information					

Visual inspection of components					
The LDRS fall arrester runs smoothly along the rail					

Comments:

Verdict of the inspection

<input type="checkbox"/>	The product is suitable for continued use	<input type="checkbox"/>	The product is not suitable for continued use
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Identification and Stamp of the controller

Name:		Company	
Date of inspection:		Inspector's stamp (Signature/ Seal):	
Date of next inspection:			



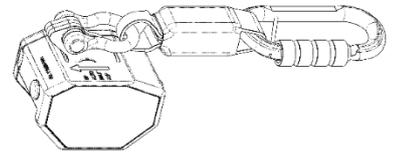
Distribué par

Vertical rail system

LADDERRAIL

LDRS FALL ARRESTER

Product identification	
Manufacturer/ Supplier:	Delta Plus Systems
Product name/ Reference:	LDRS - Fall Arrester
Standard references:	EN 353-1 : 2014 +A1 : 2017
Identification number	
Date of purchase:	
Date of first use:	



Installation manager's identification			
Name:		Company:	
User identification			
Name:		Address:	

The controller is not responsible for any inaccuracies in the information concerning the historical verification to be carried out by the user. The user is obliged to keep a complete history of the periodic examinations and repairs carried out.

Life span/ Disposal
<p>The products are guaranteed against any material or manufacturing defect for a period of 10 years from the date of delivery for metal parts, the guarantee is 2 years for other parts (textile, plastic, electrical and electronic components, ...) provided that the annual maintenance has been performed by a company approved by Delta Plus Systems. CAUTION, an exceptional event may lead you to dispose of a product after single use (type and intensity of use, environment of use: aggressive environments, marine environment, sharp edges, extreme temperatures, chemical products, etc.).</p> <p>A product must be disposed of when:</p> <ul style="list-style-type: none"> - It is more than 10 years old and is made of plastic or textile, except for the seals, which should be inspected regularly. - It has had a major fall (or blow). - The result of the product verification is not satisfactory. You doubt its reliability. - You do not know its full usage history. - Its use is obsolete (legislative, normative, technical or incompatibility with other equipment, etc.). <p>Destroy such products to prevent future use.</p>



Identification & verification



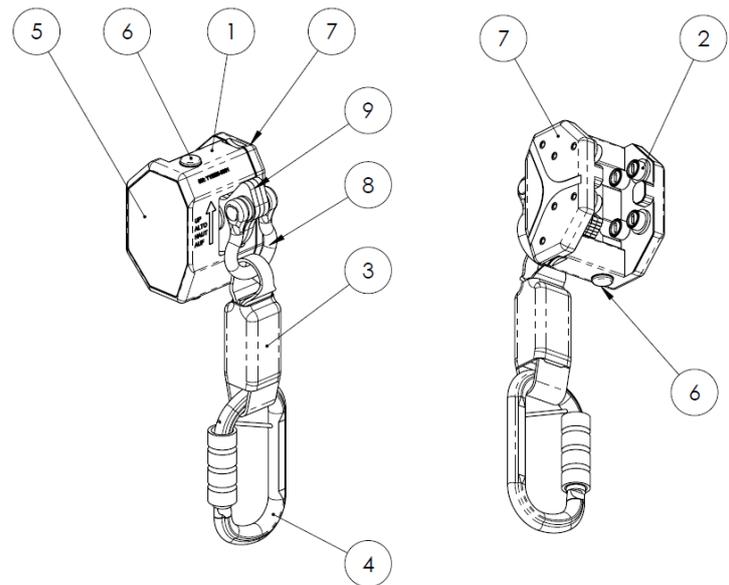
Distribué par

Comments
Good
To be monitored
To be repaired
To be scrapped

Visual inspection of components	Comments	Good	To be monitored	To be repaired	To be scrapped
Condition of the main body ① (cracks, marks, deformation, wear, corrosion)					
Condition of the 8 rollers ② and their crimping (cracks, marks, deformation, wear, corrosion)					
Expiry date of the textile absorber ③					
Condition of the textile absorber ③ (deformation, wear, condition of seams)					
Condition of the connector ④ (deformation, wear and tear, corrosion, presence of the bar)					
Presence of the identification label ⑤ with standard information					

Visual inspection of components	Comments	Good	To be monitored	To be repaired	To be scrapped
Les bouton poussoir ⑥ glissent sans point dur et reviennent automatiquement à leur place initiale					
It is not possible to pull the movable part ⑦ of the carriage when the buttons ⑥ are in their initial position					
When the two buttons ⑥ are activated, the movable part ⑦ of the carriage can be pulled without a hard spot					
When the movable part ⑦ is released, it returns to its place automatically					
The shackle ⑧ rotates freely in the body of the cam. ⑨					
The cam ⑨ rotates around its axis without a hard spot and comes back to its low position automatically					
The connector ④ rotates freely around the absorber					
The connector ④ locks automatically					

Comments:	
Verdict of the inspection	
The product is <u>suitable</u> for continued use	The product is not <u>suitable</u> for continued use



Identification and Stamp of the controller			
Name:		Company	
Date of inspection:		Inspector's stamp	
Date of next inspection:		(Signature/ Seal):	