



TECHNICAL FILE

ALTIFIX ZN



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Support & anchoring point

ALTIFIX

PRODUCT BENEFITS

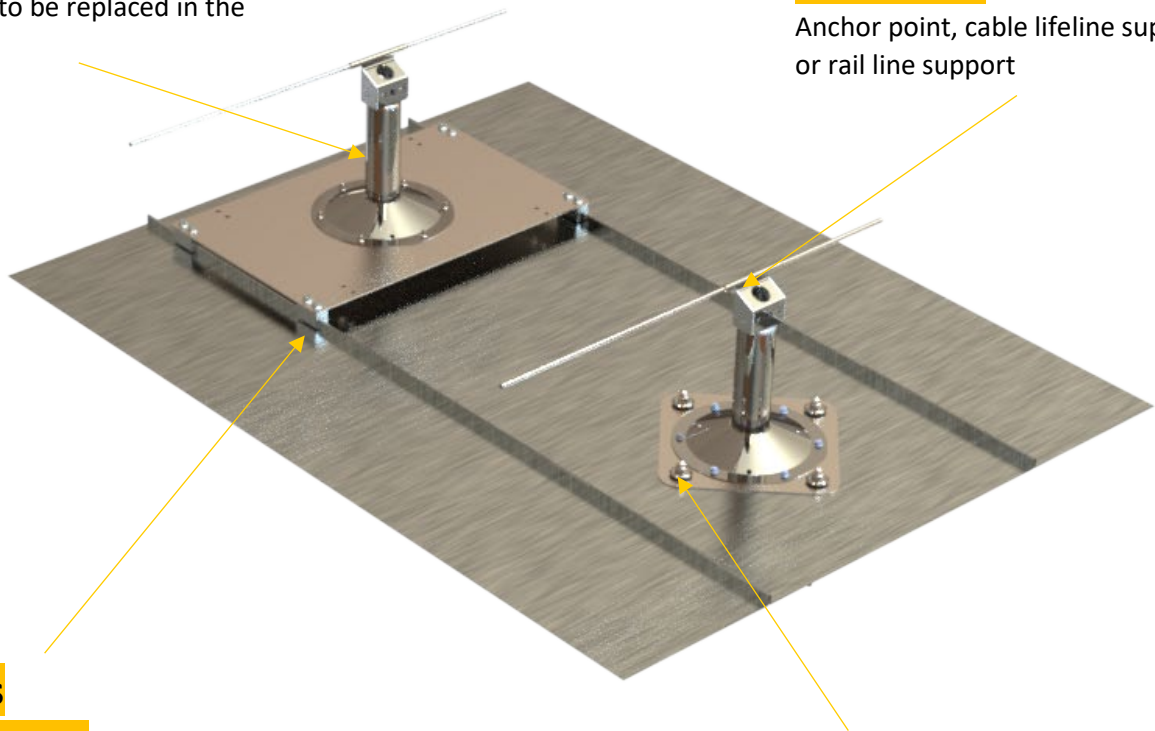
The ALTIFIX on zinc range is designed for installation on a ZINC waterproofing complex. Versatile, it can be both an anchorage point and a support for a cable or rail lifeline. Its triggering bollard means that, in the event of a fall, only the triggered part of the line needs to be replaced, rather than the whole line.

Economical

Thanks to its patented tripping mechanism, only the tripped part of the line needs to be replaced in the event of a fall

Versatility

Anchor point, cable lifeline support or rail line support



Preserves

watertightness

Installation requires no work on the underside and does not block the expansion of the zinc

Practical

Available for standing seam or deck mounting



Support & anchoring point

ALTIFIX

PRESENTATION

The Altifix ZINC range is a versatile range of anchor points, cable lifeline supports and rail lifeline supports.

It has been designed to be installed on all types of roofs sealed with ZINC membranes. The support for the waterproofing complex can be a steel sheet with a minimum thickness of 0.75 mm or concrete (thickness compatible with an anchor allowing a pull-out strength of 1000 daN).

TECHNICAL SPECIFICATIONS

- Post material: 304 stainless steel.
- Mounted on sheathing at least 12mm thick
- Minimum distance between standing seams: 330 mm
- Drilling of the zinc + sheathing complex with a 27 mm diameter hole saw

CONFORMITY & MARKING

Product marking in accordance with standard EN 365 WVAFXZN and WVAFXZNJD products comply with the

:

- ▶ Standard EN 795 Type A.
- ▶ CEN/TS 16415:2013



Type tests carried out by:

- APAVE

17 Bd Paul Langevin - 38600 Fontaine

- ALPES CONTROLES office

367 Av du Grand Arietaz - 73000 Chambéry

REMINDER OF STANDARDS

Only when it is technically impossible to provide collective protection can individual protection against falls from height be considered (French Labour Code R4323-61).

Personal protective equipment can also be used as a complement to collective protection. The use of this type of protection imposes organisational constraints, in particular:

- defining, installing and choosing the type of equipment (lifeline, anchorage point, etc.),
- work with at least two people,
- definition of an emergency response plan,
- installation and use instructions,
- staff information and training,
- periodic inspections,
- weather conditions.

As a reminder, extract from recommendation R430 - INRS/CNAMTS :

For buildings to be constructed of any kind, technical provisions to facilitate the prevention of falls from height during subsequent work on the building must be provided for at the design stage.

The ground of technical impossibility cannot therefore be accepted, as it is now up to the project owner to modify his project so that no situation remains that cannot be properly resolved, at least, by the implementation of collective protection.



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ATTESTATION DE CONFORMITE aux essais statiques et dynamiques selon les normes EN 795 : 1996 + A1 : 2000 - EN 795 : 2012 + CEN/TS 16415 :2013 N° 740X51KX

I. DEMANDEUR

Demandeur : Monsieur ARGOUD
Raison sociale : VERTIC - 691, Chemin des fontaines - CIDEX 8F - 38190 BERNIN - France

II. MATERIEL CONSIDERE

Marque commerciale : VERTIC ALTIFIX
Référence : AFX_ZNJD
Typé d'équipement : Dispositif d'ancrage de classe A

III. REFERENTIEL

Le dispositif d'ancrage AFX_ZNJD a été testé suivant les méthodologies d'essais décrites dans les paragraphes §5.2.1, §5.2.2, §5.3.2 et §5.3.3 de la norme EN 795:1996 + A1:2000 et §5.3.2, §5.3.3 et §5.3.4 de la norme EN 795:2012 ainsi que §5.2.2 et §5.2.3 des spécifications techniques CEN/TS 16415:2013.

IV. CONDITION D'UTILISATION

- Ces dispositifs ne sont pas considérés comme équipement de protection individuelle contre les chutes de hauteur.
- Ils sont destinés à être utilisés avec des équipements de protection individuelle contre les chutes de hauteur.
- Fixation sur des surfaces verticales, horizontales ou inclinées.
- Le dispositif d'ancrage AFX_ZNJD est exclusivement destiné à être installé sur une couverture de toit par éléments métalliques en feuilles de zinc conforme aux prescriptions de la norme NF P34-211-1 :2004 (DTU 40.41).

V. DESCRIPTION

Voir le dossier technique de conformité du produit AFX_ZNJD rédigé en date du 16 décembre 2014 par Laurent PERROD.

VI. CONCLUSION

Le dispositif d'ancrage AFX_ZNJD de la société VERTIC, tel que défini dans le rapport n° 740X51KX, monté sur une couverture de toit par éléments métalliques en feuilles de zinc conforme aux prescriptions de la norme NF P34-211-1 :2004 (DTU 40.41), est conforme aux exigences des paragraphes §5.2.1, §5.2.2, §5.3.2 et §5.3.3 de la norme EN 795:1996 + A1:2000 et §5.3.2, §5.3.3 et §5.3.4 de la norme EN 795:2012 ainsi que §5.2.2 et §5.2.3 des spécifications techniques CEN/TS 16415:2013 E.

Fait à ANNECY LE VIEUX, le 14/10/2015

Le Vérificateur,
Bruno DELACQUIS

Bureau Alpes Contrôles - Siège social - PME Les Glacins - 3, impasse des Prairies - 74940 ANNECY-LE-VIEUX - ☎ 04 50 64 06 02 - 📠 04 50 64 25 80
contact@alpes-controles.fr - www.alpes-controles.fr - SIREN 351 612 696 - RCS Annecy - APE 7400 - la TVA FR 20 351 612 696 - SAS au capital de 500 000 €
Agences - AQUITAINE : Bordeaux (33) - AUVERGNE : Clermont d'Auvergne (63) - BOURGOGNE-FRANCHE-COMTE : Dijon (21), Besançon (25), Belfort (90)
ILE-DE-FRANCE : Colombes (92) - LANGUEDOC-ROUSSILLON : Nîmes (30), Montpellier (34) - MIDI-PYRENEES : Toulouse (31), Montauban (82)
P.A.C.A. : Valbonne - Sophia Antipolis (06), La Penne-sur-Huveaune (13), Six-Fours-les-Plages (83), Orange (84) - PAYS-DE-LA-LOIRE : Couéron (44)
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CERTIFICATE OF CONFORMITY

No. AT4459930

I. APPLICANT

- Applicant: Mr. Sylvain MANON
- Corporate name: VERTIC –Chemin des Fontaines – Cidex 8F – 38190 BERNIN – France – vertic@vertic.fr

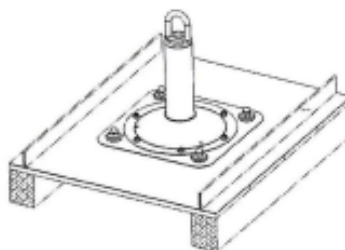
II. CONSIDERED DEVICE

- Manufacturer: VERTIC SAS
- Reference: Turning anchorage for zinc roof AFX_ZN
- Category of equipment: Anchorage mechanism NF EN 795 norm, class A1 Sept. 96

III. DESCRIPTION

The anchorage AFX_ZN is made up of the following parts:

- Stainless steel plate AFX_ZN- Reference: **290357**
- Cap + trigger – Reference: **AFX_CHAPEAU**
- Anchoring ring – Reference: **PEX.AFX**
- Flanged nut M6 – Reference: **BEEC01**
- Marking label PEX.AFX – Reference: **290352**
- Fixing kit with compensating beam – Reference: **KV-ZN**



A detailed description is provided in the AFX_ZN anchorage's technical package written by Sylvain MANON (VERTIC SAS).

IV. AUTHORITATIVE LITERATURE

The AFX_ZN anchorage system has been tested in compliance with the test methodology set forth in the NF EN 795 norm, class A1 of September 1996, that is with a dynamic test (fall from 2.5 m with a mass of 100kg) and with a static test (10kN for 3 minutes).

V. CONCLUSION

The AFX_ZN anchorage system has successfully passed the dynamic and static tests set forth in the Norm on a 12mm-thick roof board support with a centerline of 450mm between the rafters (support compliant with the requirements of the norm NF P34-211-1 of September 2004 that replaces the DTU 40.41 of June 1987). Both the tests have been made parallel and perpendicular to the roof boards. The static test was made till 12kN.

The AFX_ZN anchorage system complies with the requirements of the NF EN 795 norm, class A1, of September 1996.

November 24th, 2008
The officer

Guillaume QUINTIN

This certificate includes one page and is edited in two original copies. No duplicate will be issued.

This certificate cannot be construed as the voucher required by the French Consumer code (article L-115-27) in which an organization distinct from the manufacturer's certificates, for commercial purposes, that a product complies with the requirements of the authoritative literature filed with the administrative authority.

CETE APAVE SUDEUROPE

Limited liability company with a capital of: 3 060 000 € - RCS: 775 581 812 – Website: www.apave.com
Lessee-manager of the Lyon CETE APAVE business.

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CERTIFICATE OF CONFORMITY No. AT4403332-2

I. APPLICANT

- Applicant: Mr. Sylvain MANON
- Corporate name: VERTIC – Chemin des Fontaines – Cidex 8F – 38190 BERNIN – France – vertic@vertic.fr

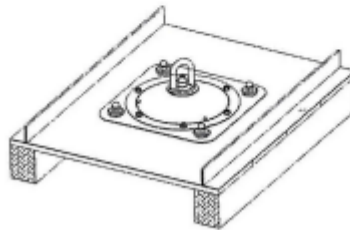
II. CONSIDERED DEVICE

- Manufacturer: VERTIC SAS
- Reference: Turning anchorage for zinc roof **AFX_ZN.PA**
- Category of equipment: Anchorage mechanism NF EN 795 norm, class A1 Sept. 96

III. DESCRIPTION

The anchorage AFX_ZN.PA is made up of the following parts:

- Stainless steel plate AFX_ZN – Reference: **290357**
- Stainless steel beaded cap – Reference: **290319**
- Anchoring ring – Reference: **PEX.AFX**
- Backing for cap + welded screw – Reference: **700403**
- Flanged nut M6 – Reference: **BEEC01**
- Washer PA6 62x12x1.5 – Reference: **290353**
- Aluminum-copper spacer – Reference: **290354**
- Marking label PEX.AFX – Reference: **290352**
- Zinc coated locknut M10 – Reference: **BE013**
- Narrow stainless steel washer M10 – Reference: **BR006**
- Plastic nut cover – Reference: **A0030**
- Fixing kit with compensating beam – Reference: **KV-ZN**



A detailed description is provided in the AFX_ZN.PA anchorage's technical package written by Sylvain MANON (VERTIC SAS).

IV. AUTHORITATIVE LITERATURE

The AFX_ZN.PA anchorage system has been tested in compliance with the test methodology set forth in the NF EN 795 norm, class A1 of September 1996, that is with a dynamic test (fall from 2.5 m with a mass of 100kg) and with a static test (10kN for 3 minutes).

V. CONCLUSION

The AFX_ZN.PA anchorage system has successfully passed the dynamic and static tests set forth in the Norm on a 12mm-thick roof board support with a centerline of 450mm between the rafters (support compliant with the requirements of the norm NF P34-211-1 of September 2004 that replaces the DTU 40.41 of June 1987). Both the tests have been made parallel and perpendicular to the roof boards. The static test was made till 12kN.

The AFX_ZN.PA anchorage system complies with the requirements of the NF EN 795 norm, class A1, of September 1996.

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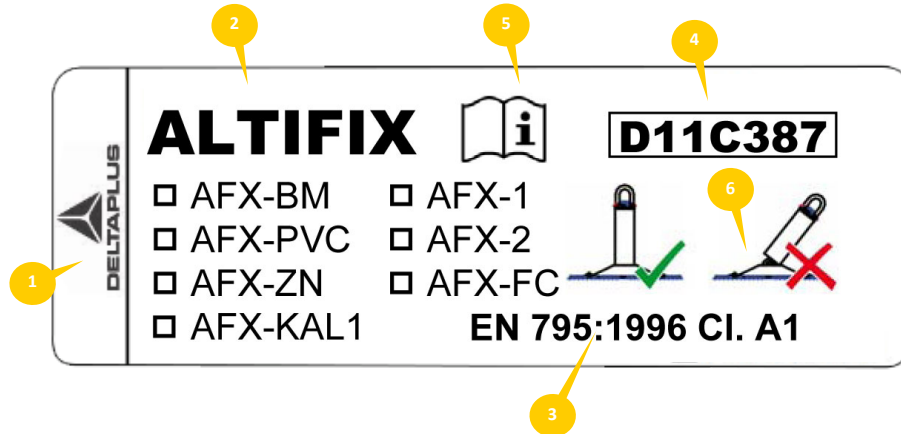
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Support & anchoring point

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Product marking in compliance with EN 365

- 1 Manufacturer's name
- 2 Product name / Reference(s)
- 3 Standards to which the product conforms
- 4 Batch number
- 5 Pictogram inviting you to read the instructions
- 6 Pictogram warning not to use the product if it is triggered





Support & anchoring point

ALTIFIX

Information

This manual is intended for users and installers of WVAFXZN, WVAFXZNJD, WVRAFXZN and WVAFXZNP products.

It must be read and understood by each person before using and/or installing the product. If you have any doubts, problems of understanding, or if a problem arises which is not covered in this document, contact your Delta Plus Systems representative or the Delta Plus Systems technical service directly.

These instructions must always be available and accessible to the user. Any activity at height is dangerous and may cause accidents, serious injury or death. You are responsible for practising and learning the techniques for using the appropriate equipment. Before using the product, you must therefore read and understand all the information contained in the instruction manual. Failure to heed any of these warnings could result in serious injury or death. For safety reasons, the user must be in good health and not be under the influence of medication, alcohol or drugs.

This equipment must only be used by people who are trained and competent to use it safely. The use of these products is strictly forbidden if they are incorrectly installed or damaged. No modification of or addition to the equipment may be made without the prior written consent of Delta Plus Systems, and any repairs must be carried out in accordance with Delta Plus Systems operating procedures.

These products must not be used beyond their limits, or in any other unforeseen situation. Before any use of the anchorage, a rescue plan must be put in place to deal with

any emergency that may arise during work. Naturally, before and during use, it is important to ensure that any such rescue can be carried out safely and effectively.

Instructions for use

The Altifix Zinc range is designed to be installed on a zinc or copper roof supported by wooden sheathing. The thickness of the battens must not be less than 12 mm and the rafter spacing in this case must not exceed 450 mm. Greater rafter spacings are possible depending on the thickness of the battens. The roofing must comply with NF P34-211-1 of September 2004 (replaces DTU 40.41 of June 1987).

The Altifix Zinc range is suitable for use by a single person with the following authorised connections:

- Guided type fall arresters EN353-2 (when supporting a cable lifeline)
- Guided type fall arresters EN353-2 (when supporting a rail lifeline)
- Automatic fall arresters EN360
- Energy absorber EN355

Authorised connections will be made to the person using a fall arrest harness complying with EN Standard 361.

The fall arrest harness is the only body-gripping device permitted to be used in a fall arrest system.

The AFX_ZN post can be used to support a lifeline when it is fitted with an energy absorber that limits the force at the end in the event of a fall to 600 daN (e.g. ABS 55 Vertic). The AFX_ZN anchorage point is fitted with a system that triggers in the event of a fall. The body of the post tilts along the axis of the fall and absorbs part of the energy to protect the roof.



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Important - Prevention before use

Visually check that the anchor is in good condition:

- No permanent deformation of the anchoring ring
- No trace of corrosion
- Fasteners in good condition (nuts tightened, etc.).
- The Altifix Zinc bollard range is equipped with a release system. If the body is not fully and firmly in contact with the plate supporting it, this means that a significant stress has occurred. Do not use the anchorage point until it has been checked and repaired by a competent person authorised by Delta Plus Systems.

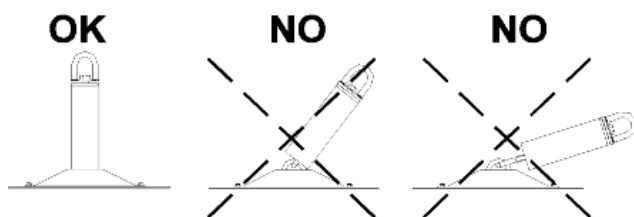
At height, your life depends on the equipment used. Any doubts as to the safety of the device should be reported to the manufacturer and to the person responsible for the installation. If the bollard is struck, do not use the product again until it has been checked and brought back into compliance by a competent person authorised by the manufacturer.

environment of use: aggressive environments, marine environment, sharp edges, extreme temperatures, chemicals, etc.).

A product must be scrapped when :

- ▶ It is over 10 years old and made of plastic or textile.
- ▶ The result of the product checks is not satisfactory.
- ▶ You have doubts about its reliability.
- ▶ You don't know its full history of use.
- ▶ Its use is obsolete (changes in legislation, standards, technology or incompatibility with other equipment, etc.).

Destroy these products to prevent future use.



Service life - Disposal

For Delta Plus Systems products, plastics and textiles, the maximum service life is 10 years from the date of manufacture, with the exception of the WVABS55 reference, as long as an annual inspection is carried out. There is no limit for metal products.

ATTENTION, an exceptional event may lead you to reject a product after a single use (type and intensity of use),



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Maintenance and servicing

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 must be washed and rinsed with clean water, then dried. It must not be brought into contact with corrosive or aggressive materials, or stored at extreme temperatures. All chemical products and solvents can alter the resistance 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 reply after an appropriate study. It is known that equipment in use degrades progressively and it is therefore difficult to give a precise lifespan to the product without knowing the intensity and frequency of use. Similarly, an exceptional situation may limit the lifespan to a single use. Certain environments accelerate product ageing (salt, sand, snow, chemical environment, etc.) (non-exhaustive list).

The condition of the product must be checked at least every 12 months by an authorised and competent person in strict compliance with Delta Plus Systems operating procedures. These periodic and regular examinations are necessary because the safety of the user is linked to maintaining the efficiency and resistance of the equipment.

Checks should include: general good condition, condition of fasteners, tightening torque, legibility of markings, etc.

The inspection and the results must be recorded in writing in a maintenance log using the identification and inspection sheet supplied by Delta Plus Systems. Repairs to products in the Altifix ZINC range are prohibited. If in doubt about the condition of the product, replace it with an original Delta Plus Systems part.

Our Delta Plus Training centre can train you in all these maintenance, overhaul and repair operations for Delta Plus Systems products and also carries out all these maintenance operations.

Delta Plus Systems can also help you check, inspect and maintain your permanent fall arrest and PPE safety systems. You can also ensure that your teams are fully conversant with the use of these fall arrest solutions and the basic concepts they need to know to work safely at height, by offering them comprehensive, customised training courses run by our training centre.



Delta Plus Training - 691, Chemin des Fontaines -
Cidex 8F - 38190 BERNIN - France



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Support & anchoring point

ALTIFIX

Installation

For safety reasons, it is essential that the anchorage point is always correctly positioned and that the work is carried out in such a way as to minimise the risk of falls and the height of fall. It is also important to check that there is sufficient clearance below the user in the workplace, so that in the event of a fall there is no collision with the ground, and no other obstacle in the path of the fall. The anchorage must therefore be installed with all these safety parameters in mind. The product must be installed by installers approved or trained by Delta Plus Systems. Installers must ensure that the support materials in which the structural anchoring devices are fixed are suitable.

A qualified engineer should verify by calculation that the design and installation data are compatible with the force applied in the type test. The suitability of structural materials should be verified by the installer by testing a sample of the material. It is recommended that each structural anchor, once fixed in the material under consideration, be subjected to an axial tensile force of 5kN. The load should be maintained for at least 15 seconds.

Delta Plus Systems cannot be held responsible for incorrect installation of the anchoring point.

A schematic plan should be affixed to the building so that it is visible to all.

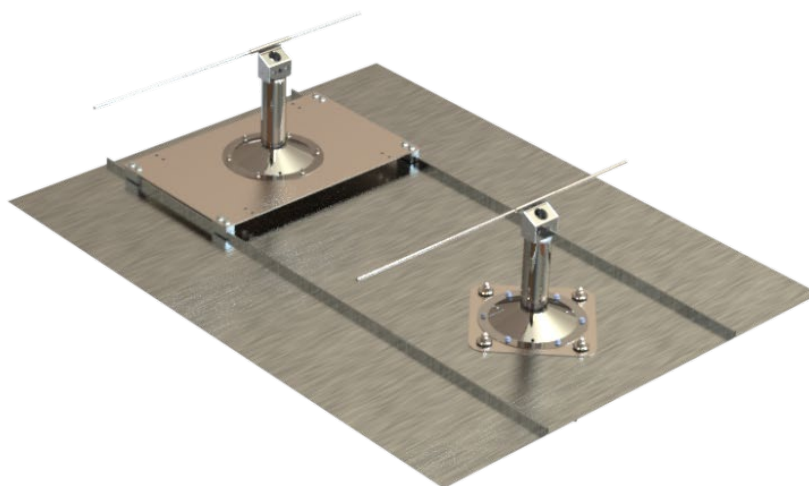
Where several anchor points are to be photographed for identification purposes, it is recommended that the anchor devices are marked with numbers and that this numbering is incorporated into the anchor device inspection records and the ground plan of the installation area.



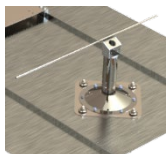
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Support & anchoring point

ALTIFIX



GENERAL NOMENCLATURE



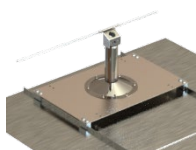
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Trip post lifeline support
WVAFXZN
Beach mounting



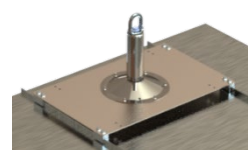
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Trigger post
WVAFXZNPA



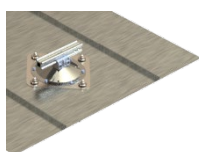
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Trip post lifeline support
WVAFXZNJD
Fixing to standing seams



4

Anchor point WVAFXZNJDPA



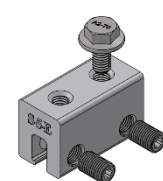
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Rail support
WVRAFXZN



6

Rocker mounting kit
WVKVZN



7

Fixing kit for standing seams
WVKVZNJD

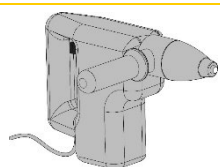


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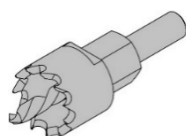
Support & anchoring point

ALTIFIX

TOOLS & PERSONNEL REQUIRED

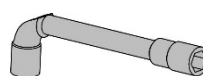


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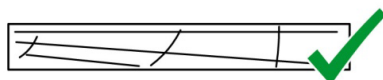
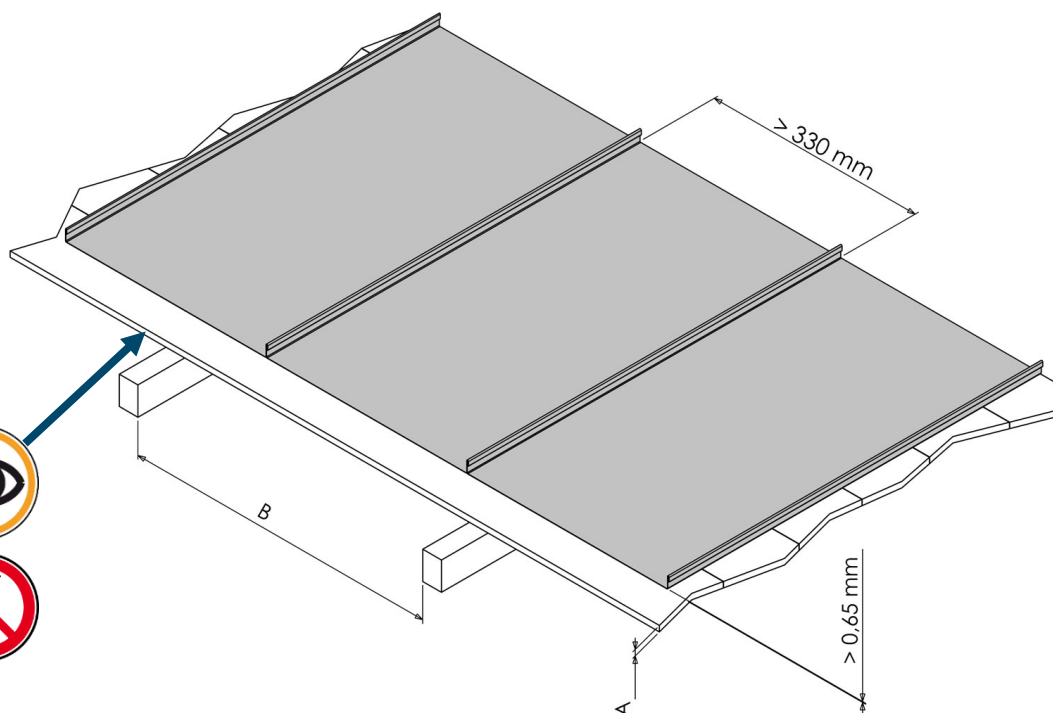
4

PRE-REQUISITES

Zinc

Zink

Zinco



A	≥ 12 mm	≥ 12 mm	≥ 12 mm	≥ 12 mm	≥ 12 mm
B	≤ 450 mm	≤ 450 mm	≤ 450 mm	≤ 450 mm	≤ 450 mm

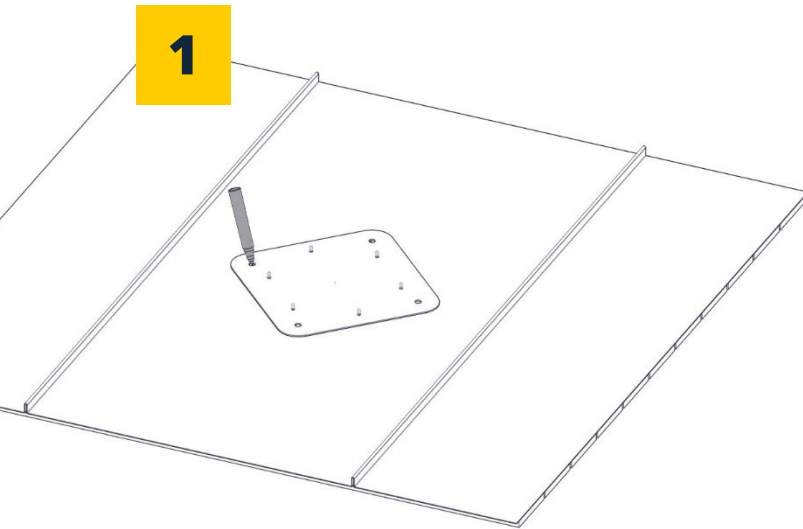


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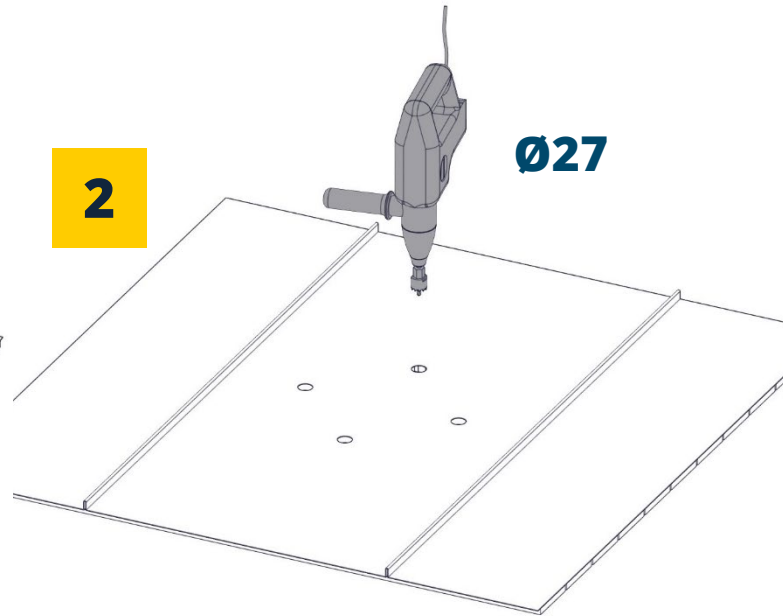
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ALTIFIX

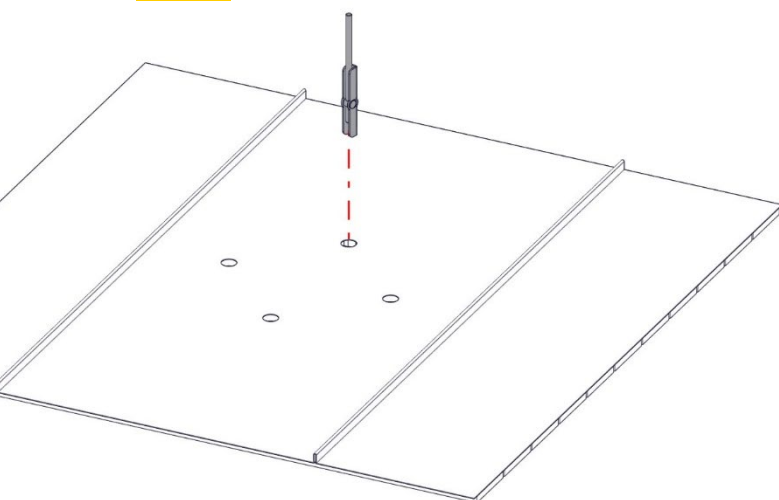
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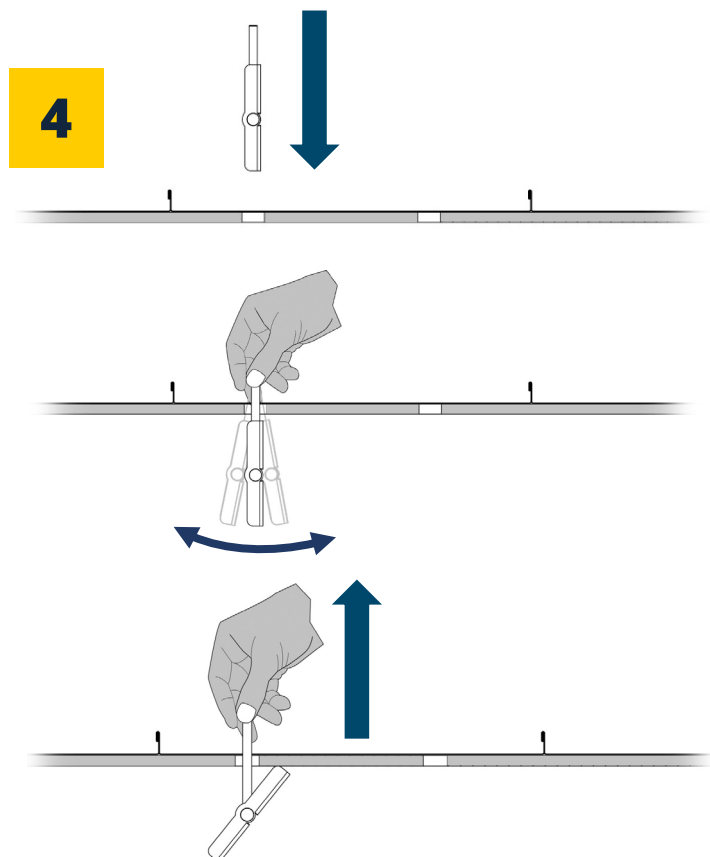
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3



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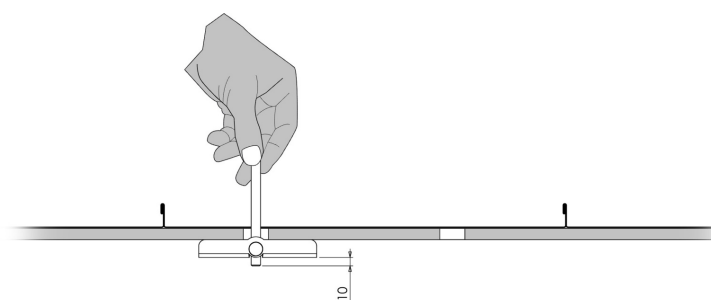


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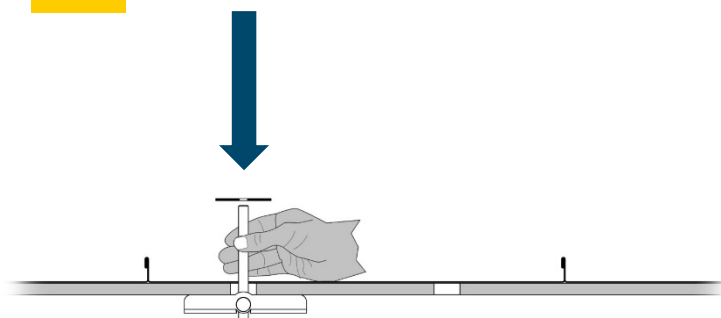
Support & anchoring point

ALTIFIX

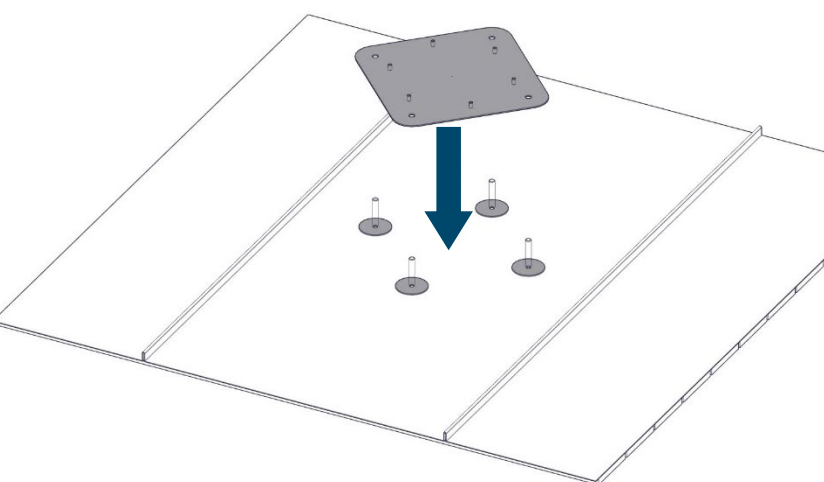
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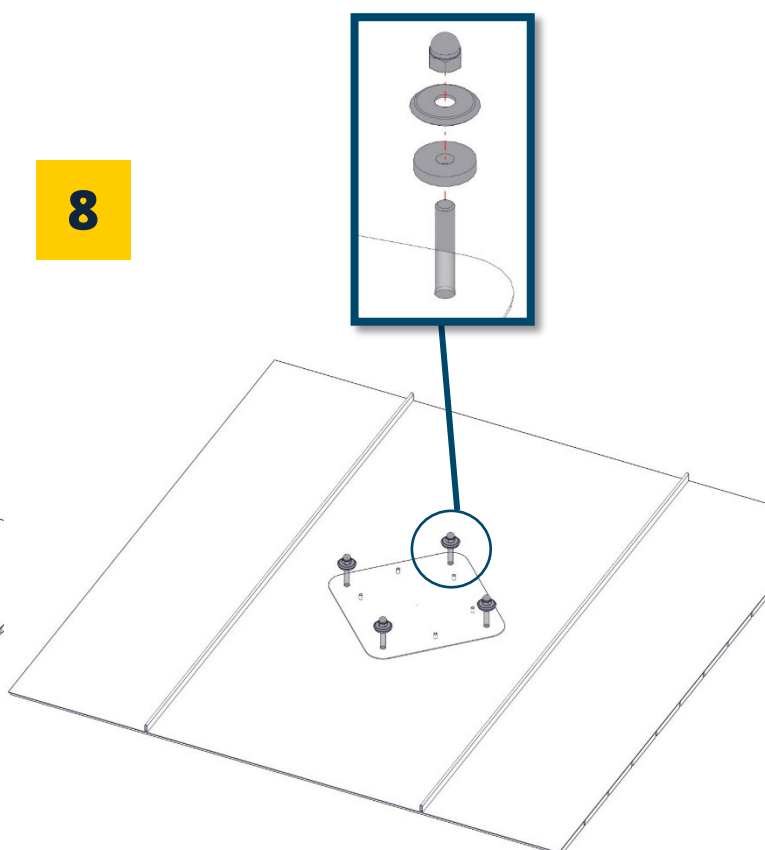
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7



8



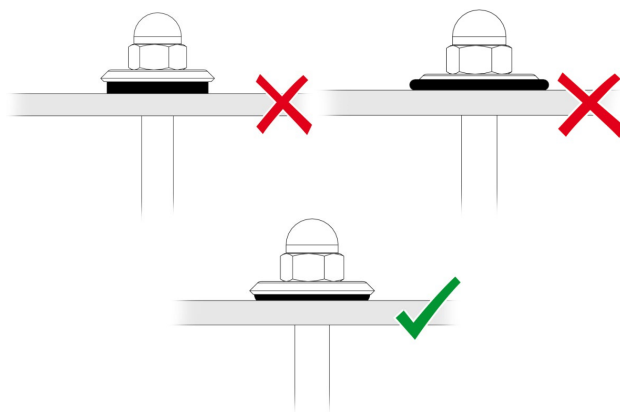
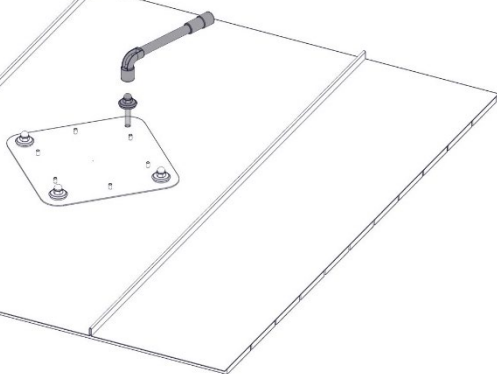


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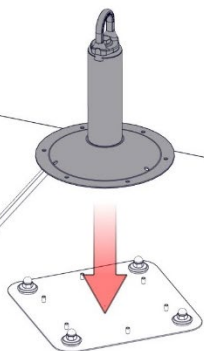
Support & anchoring point

ALTIFIX

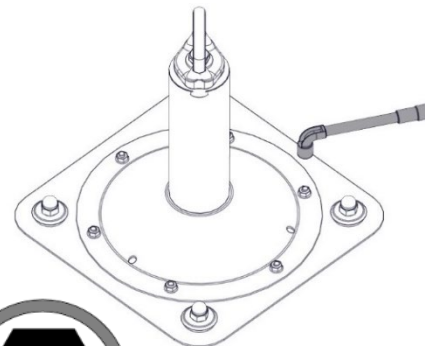
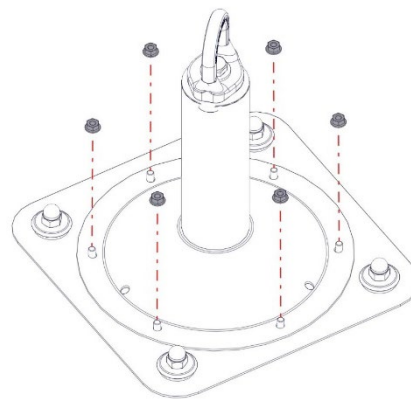
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10



11





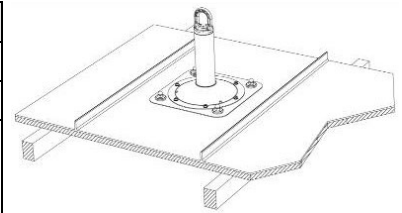
Distributed by

Support & anchoring point

ALTIFIX

ALTIFIX ZINC ANCHORING POST

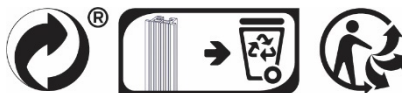
Product identification	
Manufacturer / Supplier :	Delta Plus Systems
Product name / Reference :	Altifix ZINC anchoring post - WVAFXZN
Normative references :	Standard EN 795 : 1996 Class A1



User identification			
Name :		Company :	
History check			
Year of manufacture :		Date of first use :	
		Date of purchase	

The controller declines all responsibility in the event of inaccuracy in the information concerning the historical verification which must be carried out by the user. The user is obliged to keep the entire history of the periodic examinations and repairs carried out.

Service life / Disposal
<p>For Delta Plus Systems products, plastics and textiles, the maximum service life is 10 years from the date of manufacture. There is no limit for metal products. CAUTION, an exceptional event may lead you to reject a product after a single use (type and intensity of use, environment of use: aggressive environments, marine environment, sharp edges, extreme temperatures, chemicals, etc.).</p> <p>A product must be scrapped when :</p> <ul style="list-style-type: none"> - It is over 10 years old and made of plastic or textile, except for the seals, which need to be inspected regularly. - He has suffered a serious fall (or strain). - The results of the product checks are not satisfactory. You have doubts about its reliability. - You don't know its full history of use. - When its use is obsolete (changes in legislation, standards, technology or incompatibility with other equipment, etc.). <p>Destroy these products to prevent future use.</p>





Distributed by

Support & anchoring point

ALTIFIX

Comments

Good

To watch out for

Repaired

To be discarded

Visual check of components					
General condition of the anchoring post (post tripped, deformations, wear, corrosion, etc.)					
Presence and condition of the 4 fasteners (tightening of cap nuts, corrosion, etc.)					
Condition of the 4 EPDM seals (sealing, cracks, wear, compression, etc.)					
Presence of markings with normative information					

Functional verification of components					
Correct location of the anchoring post in relation to the area to be secured					
Anchoring ring rotates correctly (if ring rotates)					

Comments :

Inspection verdict

<input type="checkbox"/>	The product is <u>fit</u> to remain in service	<input type="checkbox"/>	The product is <u>unfit</u> to remain in service
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Identification and visa of the controller

Name :		Company	
Date of inspection :		Controller's stamp (Signature / Stamp) :	
Date of next inspection :			



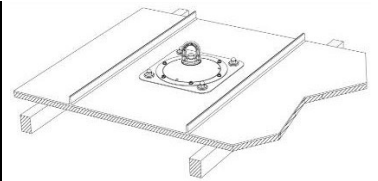
Distributed by

Support & anchoring point

ALTIFIX

ALTIFIX ZINC PA SWIVEL ANCHOR

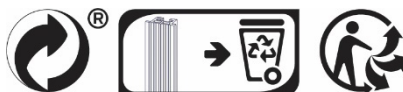
Product identification	
Manufacturer / Supplier :	Delta Plus Systems
Product name / Reference :	ALTIFIX ZN PA swivel anchor - WAFXZNPA
Normative references :	NF EN 795 September 1996 - Class A1



User identification			
Name :		Company :	
History check			
Year of manufacture :		Date of first use :	
		Date of purchase	

The controller declines all responsibility in the event of inaccuracy in the information concerning the historical verification which must be carried out by the user. The user is obliged to keep the entire history of the periodic examinations and repairs carried out.

Service life / Disposal
<p>For Delta Plus Systems products, plastics and textiles, the maximum service life is 10 years from the date of manufacture. There is no limit for metal products. CAUTION, an exceptional event may lead you to reject a product after a single use (type and intensity of use, environment of use: aggressive environments, marine environment, sharp edges, extreme temperatures, chemicals, etc.).</p> <p>A product must be scrapped when :</p> <ul style="list-style-type: none"> - It is over 10 years old and made of plastic or textile, except for the seals, which need to be inspected regularly. - He has suffered a serious fall (or strain). - The results of the product checks are not satisfactory. You have doubts about its reliability. - You don't know its full history of use. - When its use is obsolete (changes in legislation, standards, technology or incompatibility with other equipment, etc.). <p>Destroy these products to prevent future use.</p>





Distributed by

Support & anchoring point

ALTIFIX

Comments

Good

To watch out for

Repaired

To be discarded

Visual check of components					
General condition of the anchoring point (deformation, wear, corrosion, etc.)					
Presence and condition of the 4 fasteners (tightening of cap nuts, corrosion, etc.)					
Condition of the 4 EPDM seals (sealing, cracks, wear, compression, etc.)					
Presence of markings with normative information					

Functional verification of components					
Correct location of the anchoring point in relation to the area to be secured					
Anchoring ring rotates correctly (if ring rotates)					

Comments :

Inspection verdict

<input type="checkbox"/>	The product is <u>fit</u> to remain in service	<input type="checkbox"/>	The product is <u>unfit</u> to remain in service
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Identification and visa of the controller

Name :		Company	
Date of inspection :		Controller's stamp (Signature / Stamp) :	
Date of next inspection :			