

TECHNICAL SPECIFICATIONS & INSTALLATION INSTRUCTIONS



VERSION :
20-03-24

RAIL LIFELINE CONEKT XL

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CONEKT XL LIFELINE RAILS

1. PREAMBLE

CONEKT rail lifelines are part of the CONEKT range of anchors and lifeline systems from the L'Echelle Européenne network of height specialists.

When assembled in accordance with these instructions, CONEKT rail lifelines comply with the following standards:

EN 795:2012 and TS16415:2013 type D.

CONEKT rail lifelines provide safe movement and secure worksites for all types of personnel or technical operators working on a building or machine.

When used in conjunction with fall-protection PPE (Personal Protective Equipment), CONEKT rail lifelines provide workers with freedom of movement at heights while being securely attached to the lifeline at all times.

This lifeline system is manufactured by L'Echelle Européenne in Saint Jean de Védas (France):

L'Echelle Européenne SAS
 447 rue Henri Farman
 34430 SAINT JEAN DE VEDAS
 Tel: 04 67 27 36 55
 E-mail: info@echelle-europeenne.com
 Website: www.echelle-europeenne.com

CONEKT Rail lifelines are designed and tested for use by 4 users simultaneously.

CONEKT rail lifeline installations can be spaced between intermediate points up to a maximum of 6 m on ceilings.

The CONEKT XL rail can only be used in ceiling-mounted systems.

2. USE

The instructions and conditions of use outlined in this technical manual must be strictly observed.

CONEKT Rail lifelines can be used by up to 4 persons simultaneously.

Before each use, the equipment must be checked by the user to ensure that it is in serviceable condition and operates correctly.

The user must visually verify that:

- the equipment is in apparent good order and condition.
- none of the components are damaged or deformed.

A system must be immediately withdrawn from service if doubts arise as to its safety, or if it has been used to stop a fall.

It may not be returned to service until it has been inspected and re-certified in writing by a competent person as safe for use.

It is important to note that:

- The lifeline must be used by a person in good health and in full physical control.
- The equipment must only be used by a competent person adequately trained to use it safely. The correct procedures for PPE lifeline connection and use must be demonstrated to all operators before use.
- A rescue plan and the means to implement it must be put in place to deal with any emergencies that may arise during use.

Please note that no modifications or additions should be made to the equipment without the prior written consent of the manufacturer, and that all repairs must be carried out in accordance with the manufacturer's operating procedures.

It is strictly forbidden to change, modify, add to or transform the components of the CONEKT rail line without the prior consent of L'Echelle Européenne.

It is important to be aware of the danger that may arise from using a combination of equipment where the function of any one item is affected by or interferes with the function of any other item.

Please note that, to ensure safety with any fall arrest system, the anchor arrangement or points must always be correctly positioned and the work must be performed in such a way as to minimize the risk of falls and the height of a fall.

CONEKT XL LIFELINE RAILS

If possible, the CONEKT lifeline rail should ideally be anchored directly above the operator in order to limit the free fall distance.

For safety reasons, it is essential to verify the clearance required under the user on the worksite before each potential use of a fall arrest system so that, in the event of a fall, the worker is protected from striking the ground or any other obstacle in the fall path.

To ensure user safety, if the product is resold outside the original country of destination, the reseller must provide instructions for its use, maintenance, periodic inspection and repair in the language of the country where the product is to be used.

The rules for combining PPE products must be followed to ensure that a fall-arrest system complies with standard EN363 (chapter VII).

A fall-arrest device must be checked each time it is used to ensure that the lifeline is in good working order (not deformed or corroded, and the fastenings are well-tightened).

The user must be equipped with a means of limiting the maximum dynamic forces exerted on the user during the arrest of a fall, to a maximum of 6 kN.

A full-body safety harness is the only body-support device permitted for use in a fall-arrest system. The user must be connected to the anchorage point by means of a suitable fall-arrest system (fall-arrest device or lanyard), at the sternal or dorsal attachment point of the harness.

The CONEKT XL rail lifeline has a rigid design. Deformation during use is negligible. In the event of a fall, the maximum deformation is 170 mm.

This lifeline can therefore be used as a support for rescue operations or as a means of rope access.

A sign posted near the anchorage informs the user of the date of the last periodic inspection.

CONEKT rail lifelines are made of aluminum. They are therefore susceptible to deterioration in certain chemical environments.

Thermal expansion can also occur if the lifelines are exposed to significant temperature changes.

CONEKT rails and lifeline components have no sharp edges that could damage lanyards or ropes.

When using CONEKT rail lifelines, it is strictly forbidden to perform operations involving the suspension of loads on the rails.

The PPE system must be connected to the lifeline by means of an EN362 connector fitted to one of the R50 or R52 trolleys.

The CONEKT rail lifeline is designed exclusively for use with personal fall-protection systems.

CONEKT lifeline rail fasteners must be able to withstand 1500 daN in the direction of the fall.

As the strength of the lifeline depends directly on the quality of the support base, compliance can only be established if the support material exhibits no manufacturing defects or drop in performance resulting from installation or use (aging, overloading, exposure to chemicals or extreme weather, etc.).

The CONEKT lifeline rail system must be installed in accordance with good engineering practice, and in compliance with the recommendations of the manufacturer of the fixing elements (anchors, etc.).

The intermediate and end components are fastened to the support using 12 mm diameter stainless steel screws with a minimum shear strength of 2000 daN.

For fastening to steel or wood, a competent technician must verify by calculation that the design and installation data comply with EN 795:2012 + TS 16415:2013 type D.

For concrete or stone, through rods or chemical anchors must be used. The quality of the installation must then be assessed by a test performed at 500 daN for 15 seconds. Please note that this test must be conducted before installing the Conekt components. Performing this test with the lifeline

3. LIMITATIONS OF USE

CONEKT XL LIFELINE RAILS

components in place would result in deformation of the anchorage.

For wood, through rods or counter-plates must be used.

When fastening into other materials, the installer should verify the suitability of the substrate, either by calculations or testing.

If specific interfaces need to be designed, the installer should have them correctly sized by a competent person. These interfaces must be properly treated to prevent corrosion.

The CONEKT rail line may only be used in conjunction with CE-certified equipment (harness, lanyard, etc.) and in accordance with the manufacturer's recommendations.

The parts and accessories, as well as the position and quality of the structural anchors, must be exactly as described in these technical specifications.

CONEKT rail lifelines must be inspected regularly, as the user's safety is directly dependent on maintaining the efficiency, strength and durability of the equipment.

Periodic examinations must be conducted by a competent person at least once every twelve months and strictly in accordance with the manufacturer's periodic examination procedures.

The periodic inspection of CONEKT rail lifelines involves checking to ensure that all the components of the lifeline are in good working order and condition. The CONEKT rail lifeline checklist defines all the inspection criteria. It is particularly important to check that all markings are present and legible and that signs are correctly filled in.

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4. WARRANTY, CARE AND MAINTENANCE

CONEKT rail lifelines are guaranteed for 5 years.

Lifelines designed with CONEKT rail system parts have an unlimited service life.

Only periodic inspection can determine whether certain components should be removed from service.

All CONEKT rail lifeline components are treated to protect them against corrosion and UV radiation.

CONEKT rail lifeline components should be cleaned with a mild soap and water solution. Do not use any corrosive chemicals that could damage the product. This method must be strictly adhered to.

We do not recommend using a lubricant on the rails or the components of these lifelines.

5. SYSTEM CHECK

CONEKT XL LIFELINE RAILS

6. CERTIFICATE OF CONFORMITY



QUINTIN CERTIFICATIONS
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38160 SAINT ANTOINE
L'ABBAYE - France
Tel. +33.(0)7 66 29 39 28
info@quintincertifications.fr
www.quintincertifications.com

Attestation n° 1-6779
Portée disponible sur
www.cofrac.fr



ATTESTATION DE CONFORMITE N°RQC2023-009/A

1. DEMANDEUR
Demandeur : M Benjamin Legoas
Raison Sociale : Echelle Européenne - PARC MARCEL DASSAULT - 447 Rue Henri Farman - 34430 SAINT JEAN D VEDAS – France

2. MATERIEL CONSIDERE
Type d'équipement : Dispositif d'ancrage type D – EN 795 : 2012* et TS 16415 :2013*
Marque commerciale : CONEKT
Référence : RAIL CONEKT XL

3. DESCRIPTION

Principales caractéristiques	Composants
- Utilisation en position sous face uniquement - Nombre de chariot mobile : 1 - Portée maximum : 5.7 m - Nombre d'utilisateur : 4 personnes - Virage : non autorisé - Porte à faux autorisé : oui 20 cm maximum - Eclissage en milieu de portée autorisé - Butée: fixe par vis traversante M12 - Angle maximum d'utilisation : 5°	- Rail CONNEKT XL en aluminium réf R03XL - Navette à roulette en acier inoxydable réf R52 - Support de rail en acier inoxydable réf R25XL - Eclisse de jonction en aluminium réf R20XL - Butée fixe réf R21XL

(Description et résultats complets dans le rapport n°RQC2023-009-1).

4. REFERENTIEL TECHNIQUE
Dispositif d'ancrage de type D a été évalué selon la norme EN 795 : 2012* "Equipement de protection individuelle contre les chutes – Dispositifs d'ancrage" et la spécification technique TS 16415 :2013* "Personal fall protection equipment – Anchor devices – Recommendations for anchor devices for use by more than one person simultaneously".

5. CONDITION D'UTILISATION
Ce dispositif d'ancrage de type D n'est pas considéré comme équipement de protection individuelle contre les chutes de hauteur. Il est destiné à être utilisé avec des équipements de protection individuelle contre les chutes de hauteur.

6. CONCLUSION
Le dispositif d'ancrage de type D, référence RAIL CONEKT XL , présenté par la société ECHELLE EUROPEENNE, selon les éléments contenus dans le rapport RQC2023-009-1, est conforme aux exigences de la norme EN 795 : 2012* et de la spécification technique TS 16415 :2013*.

11/05/2023
Le gérant de QUINTIN CERTIFICATIONS
Guillaume QUINTIN



G. Quintin
Vérification électronique

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QUINTIN CERTIFICATIONS – 825 route de Romans – 38160 SAINT ANTOINE L'ABBAYE – France TEL +33 (0) 7 66 29 39 28 – Email : info@quintincertifications.fr
SARL au capital de 10 000 € - SIREN 848 919 676 - TVA Intracommunautaire FR81848919676

QC-150-V5- Attestation de conformité Cofrac n°RQC2023-009 A Fr_ Echelle Européenne

CONEKT XL LIFELINE RAILS



L'ECHELLE EUROPEENNE
Parc Marcel Dassault
 447 Rue Henri Farman
 34430 SAINT JEAN DE VEDAS - FRANCE



ATTESTATION DE CONFORMITÉ

RAILS CONEKT



L'Echelle Européenne atteste que les lignes de vie Rail Conekt sont conformes aux exigences de la norme EN 795 : 2012 type D et à la spécification technique TS 16415 :2013.

Les essais préliminaires réalisés par nos soins, les essais réalisés par QUINTIN CERTIFICATION en avril 2023, et les essais complémentaires réalisés en mai et juin 2023 nous permettent de valider l'ensemble des composants de ces lignes de vie.

La liste des composants concernés est la suivante : R03, R06, R03XL, R06XL, R10, R13, R20, R20XL, R21, R21XL, R22, R25XL, R50, R52 et R53.

Ces composants doivent toutefois être mis en place dans le respect des notices de montage fournies par Echelle Européenne.

Ces lignes de vie peuvent être mise en place sur les interfaces standards ou sur des interfaces spécifiquement étudiées par une personne compétente.

Fait à Saint Jean de Védas, le
 21/06/2023

Benjamin LE GOAS
 Ingénieur Développement

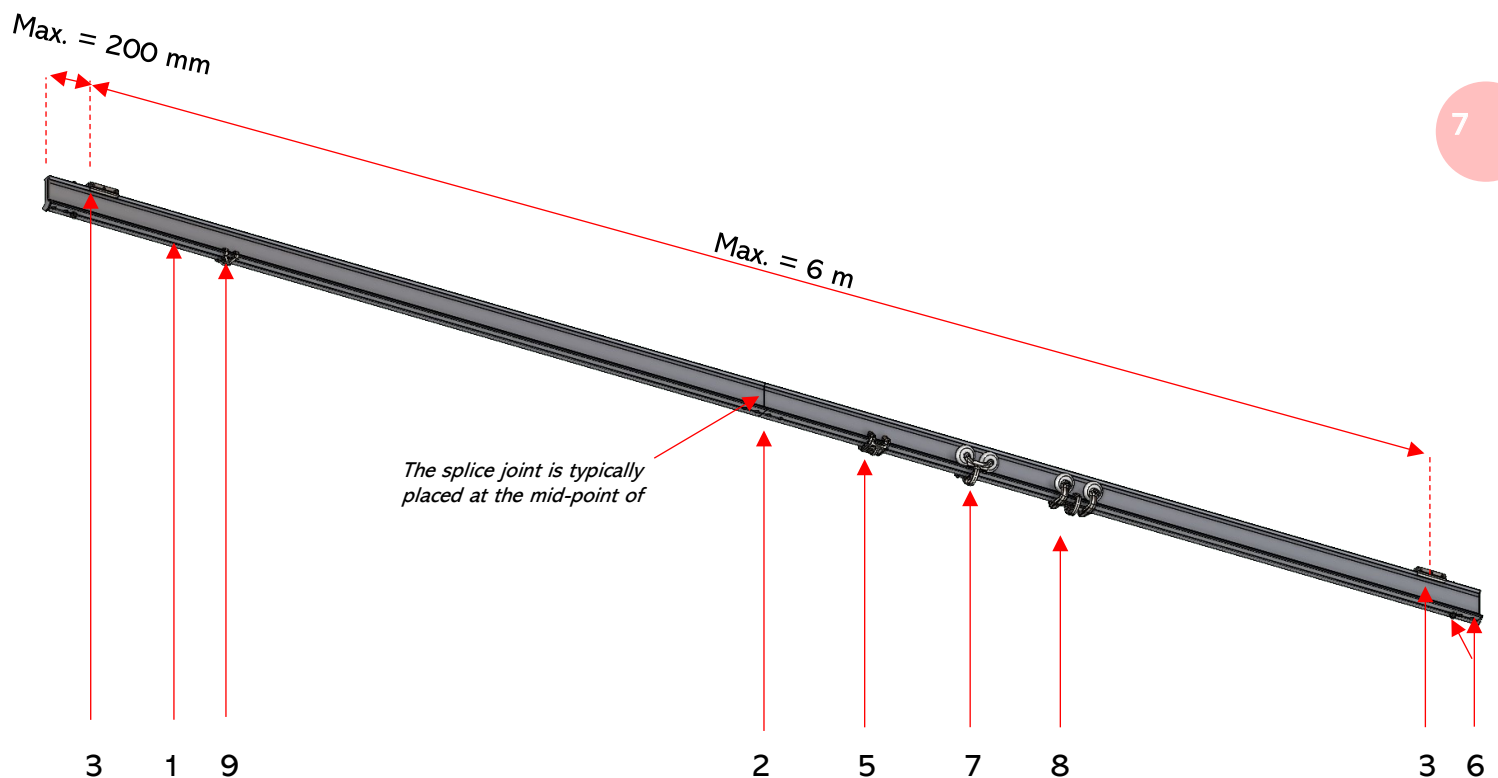


L'Echelle Européenne SAS au capital de 1 038 112,25 euros - RCS Montpellier 378 658 827 00035
 APE 8229Z - N° TVA : FR84378658827
 Parc DASSAULT - 447, Rue Henri FARMAN - 34430 ST JEAN DE VEDAS - France
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CONEKT XL LIFELINE RAILS

7. SYSTEM COMPONENTS

a. CONEKT XL rail version for mounting on ceilings.



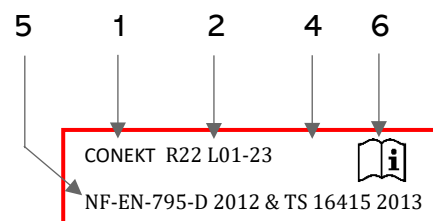
Reference numbers of components

- 1 - A0014120 (R03XL) for 3 m / A0014122 (R06XL) for 6 m - XL rail height 120 mm.
- 2 - A0014128 (R20XL) - XL splice joint.
- 3 - A0014134 (R25XL) Wide rail fastener or A0014133 (R25) Standard rail fastener.
- 5 - A0014139 (R52) - Wheeled trolley.
- 6 - A0014130 (R21XL) - XL fixed stop and M12 through bolt
- 7 - A0014140 (R53) - Trolley for rope access and high loads.
- 8 - A0014141 (R54) - Articulated rope access trolley.
- 9 - A0014137 (R50) - Simple trolley.

CONEKT XL LIFELINE RAILS

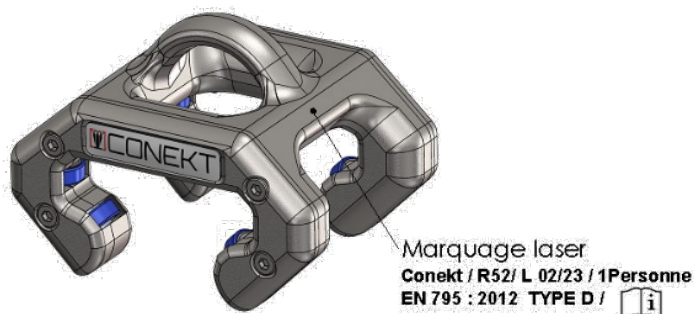
b. Meaning of markings:

- 1-Manufacturer's name
- 2-Product reference number
- 4-Serial number
- 5-Standard and year of the standard
- 6-Read instructions carefully



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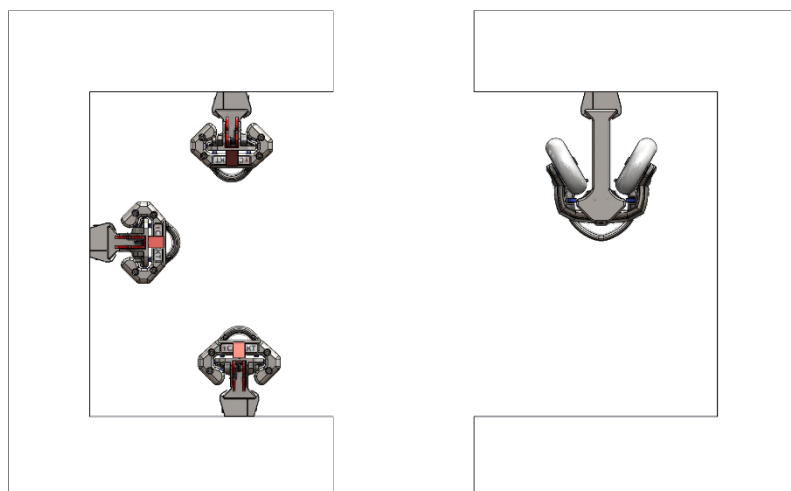
For trolleys:



c. Rail orientation

The standard rail and R50 and R52 trolleys can be used in ground, wall and ceiling configurations.

The XL rail and R53 and R54 trolleys can only be used with ceiling-mounted systems.



CONEKT XL LIFELINE RAILS

8. MAIN COMPONENTS



Anodized XL aluminum rail, in lengths of 3 m or 6 m. The rail section is 120 mm high and 60 mm wide.

XL Splice joint:

REF. NO.: A0014128 (R20 XL)



Anodized aluminum splice joint for connecting 2 XL rails.

Fixed end stops

REF. NO.: A0014130 (R21 XL)

The fixed end stop prevents the trolleys from leaving the track profile when in use. Its components are made of 304 grade stainless steel + epoxy paint.

This stop must be used in conjunction with an M12 through bolt.

Wide rail fastener & standard rail fastener

REF. NO.: A0014134 (R25 XL) & A0014133 (R25)



Rail fastener for mounting on a support with one M12 HC stainless steel screw for standard fastening and with 2 M12 HC stainless steel screws for wide-rail fastening. The wide fastener was designed especially for large spans (4 to 6 m).

Wheeled trolleys.

REF. NO.: A0014139 (R52)

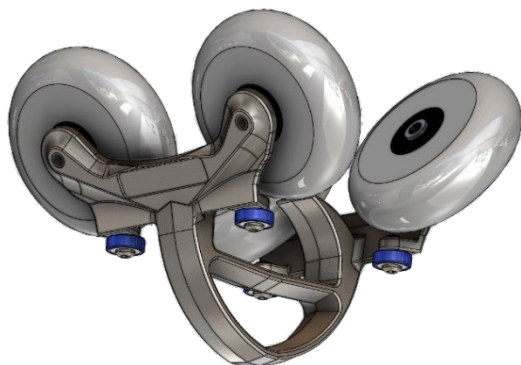


304 grade stainless steel wheeled trolley. This trolley can be used in ground, wall or ceiling configurations. This trolley glides smoothly along the lifeline thanks to 12 D15 rollers, and can be used with any type of self-retracting fall-arrester.

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Rope access trolley

REF. NO.: A0014140 (R53)



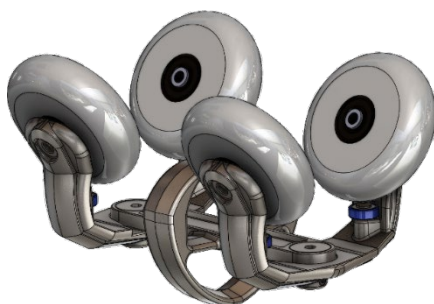
304 grade stainless steel trolley with 4 D15mm roller castors and 4 D76 mm polyurethane ball bearing wheels. This trolley can only be used with ceiling-mounted systems. This easy-glide trolley rolls smoothly and effortlessly and can be used with any type of self-retracting fall arrester, making it ideal for suspended work.

This trolley can only be used in a straight line rail system.

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The articulated rope access trolley

REF. NO.: A0014141 (R54)



304 grade stainless steel trolley with 4 D15mm roller castors and 4 D76 mm polyurethane ball bearing wheels. This trolley can only be used with ceiling-mounted systems. This easy-glide trolley rolls smoothly and effortlessly and can be used for suspended work.

This articulated trolley can be used on curved rails. It cannot be used on R10-type corner angle rails.

TYPE OF TROLLEY	Use for mounting on:			Use (with // in)			
	Ground	Wall	Ceiling	RFA (Retractable fall arrester)	Suspension	Curved rail	R10 corner angle rail
R50	✓	✓	✓			✓	✓
R52	✓	✓	✓	✓ *		✓	✓
R53			✓	✓	✓		
R54			✓	✓	✓	✓	

- Designed for light Retractable Fall Arresters. For heavy RFAs use the R53 trolley.

CONEKT XL LIFELINE RAILS

9. MARKING

Lifeline markings are primarily indicated on the sign, **which is the lifeline's identification card**:

Sign to be positioned on the lifeline

REF. NO.: A0014062 (S21)



If there is no identification sign posted near the lifeline, the lifeline cannot be used. The sign meets the marking requirements of EN 365 and must be positioned on the anchoring device.

Information already filled in:

- The name of the manufacturer L'ECHELLE EUROPEENNE.
- A notice asking the user to read the operating instructions.
-

Must be completed in accordance with the specifications of EN 365:

- The number, type of equipment and year of the document to which the product conforms: EN 795:2012 and TS16415:2013 type D
- Maximum number of users (up to 4)
- The date of acceptance.
- Date of last inspection.

Additional information to be provided

- The date of installation.
- And the type of PPE recommended by the installer.
- The installer's name

In addition, each component of the lifeline is marked with the following:

- Manufacturer's name
- Model and type of part
- Component batch number
- Document to which the equipment conforms
- A pictogram indicating that the user must "read the instructions".

Sign to be placed at the access point

REF. NO.: A0014061 (S20)



This sign must be posted at the access point of the lifeline and is a warning of a fall hazard and the need to wear a harness beyond this point.

To be filled in:

- Anchor type.
- Fall factor.
- Maximum number of users (up to 4).
- The type of PPE recommended.
- Installer's name and date of installation.
- Inspector's Name (initial inspection) and date of inspection.
- Name of inspector (Last periodic inspection) and date of this inspection.

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10. INSTALLATION OF THE CONEKT RAIL LIFELINE

CONEKT rail lifelines are primarily installed using Class 50 stainless steel screws (typically M12 screws). The tightening torques to be applied are as follows:

- **M 8 class 50 stainless steel screws:**
20 Nm
- **M12 class 50 stainless steel screws:**
35 Nm
- **M16 class 50 stainless steel screws:**
80 Nm

We typically supply grower washers. However, in environments subject to vibrations, **a locknut should also be used** for additional reinforcement.

Reminder: the grower washer is placed between the screw head and the flat washer.

If stored prior to installation, components must be kept in a clean, dry location. In addition, during transport, components must be protected from crushing or impacts.

Rail fasteners must be installed on supports with sufficient strength for a type D fall arrest anchor (1500 daN in the direction of fall for 4 persons).

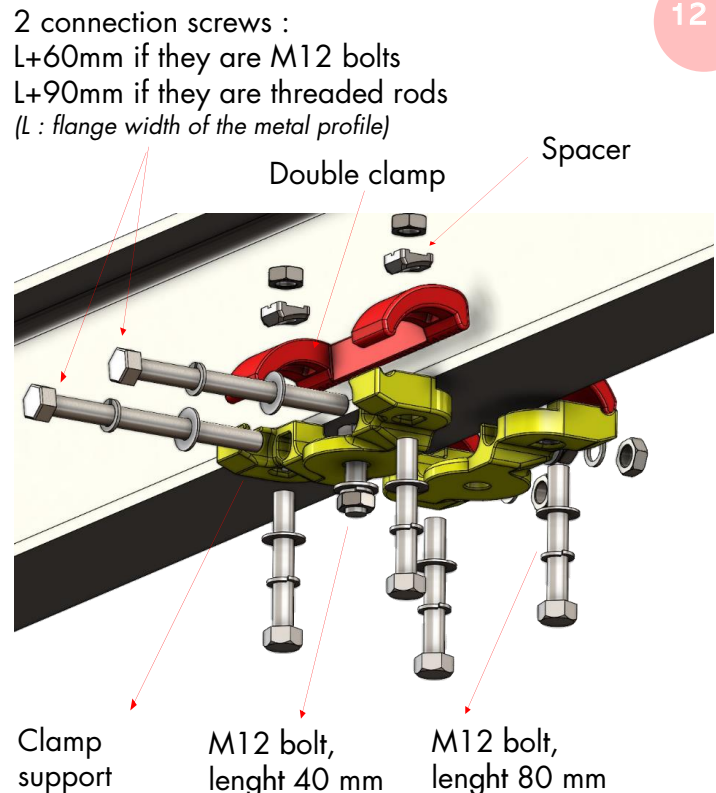
The maximum allowable angle from the horizontal is 5°.

Main mounting rules for the XL rail:

- **Maximum spacing of 6 m.**
- **Maximum centre-to-centre distance of 5 m for suspended work.**
- **Maximum cantilever overhang 200 mm.**
- **Double the rail end fasteners if the final span is greater than 5 m.**
- **Fasteners before and after the curved rails.**

Assembly of the CONEKT clamping system:

The CONEKT clamping system can be used in ceiling-mounted systems. This system allows the clamping of an I-beam flange of unlimited width and with a thickness of up to 25 mm. For flanges with a greater thickness shims can be used to raise the height of the clamp.

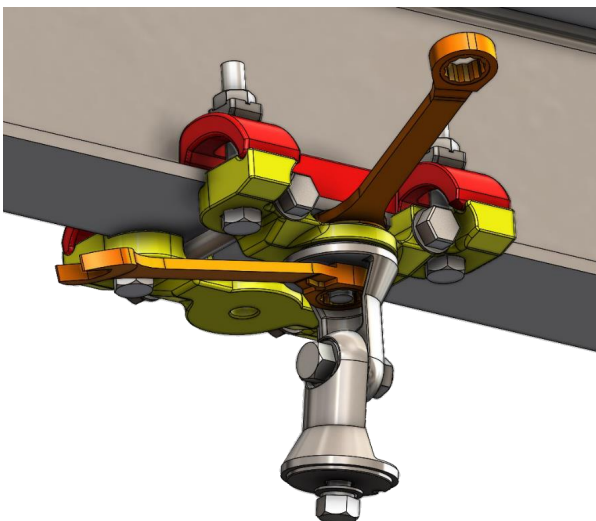


This system is clamped using 4 M12 screws, 80 mm long, and 2 connection screws between the clamp supports (yellow). The connection screws must measure L+60mm if they are M12 bolts or L+90mm if they are threaded rods. L is the flange width of the metal profile.

This system fits flanges from 3 to 25 mm thick and from 60 mm to 500 mm wide. A 40 mm M12 screw must be used to fasten the lifeline support.

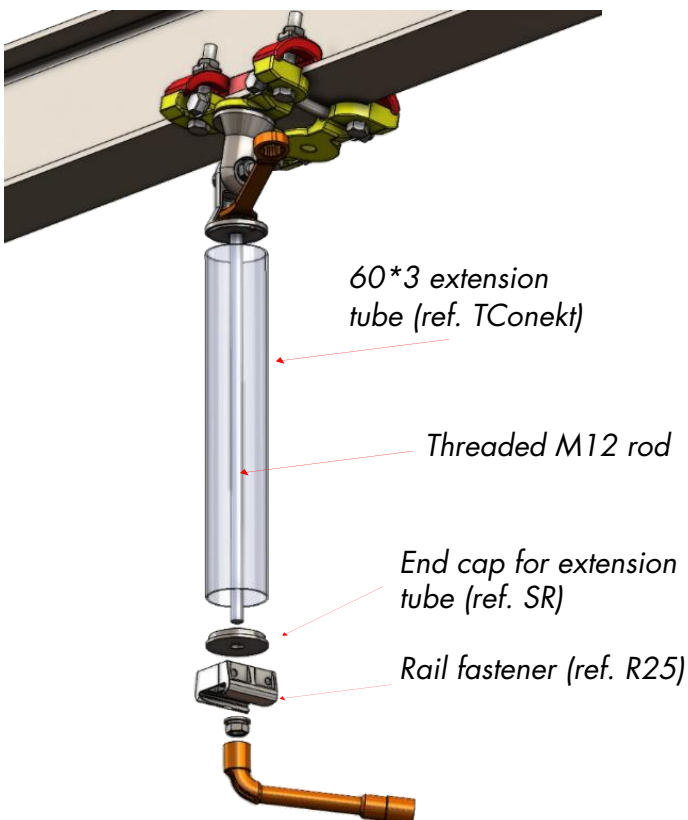
CONEKT XL LIFELINE RAILS

Joint assembly:



The articulation system can be installed under the clamp support, to compensate for angles in the structural frame.

The extension system consisting of a 60*3 aluminum tube, an M12 threaded rod and SR extension bracket makes it possible to reach the rail level. The threaded rod must be measure the lenght of the tube + 50 mm :



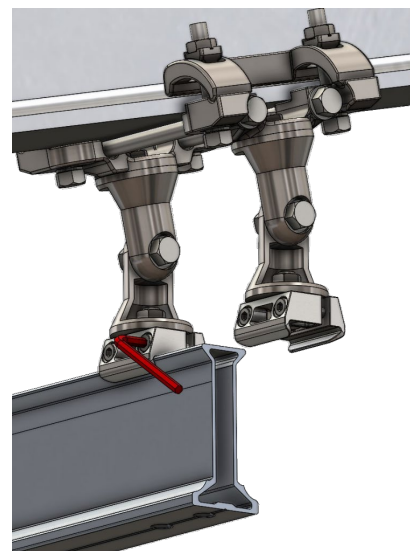
Installation of standard A0014133 rail fastener (R25):



Loosen the 2 CHC M8 screws to open the rail fasteners. Install the standard rail fastener using the HC M12 screw. Don't forget to include the grower washer during assembly.

XL rail mounting:

Slide the rail into the fasteners, and tighten the 2 CHC M8 screws.



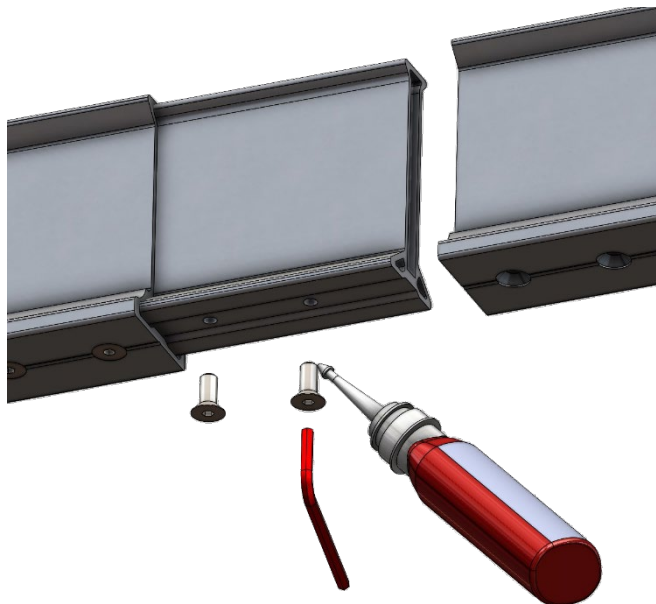
Mounting the rail fastener A0014134 (R25XL):



Loosen the 3 CHC M8 screws to open the rail fasteners. Install the rail fastener using the HC M12 screw. Don't forget to include the grower washer during assembly.

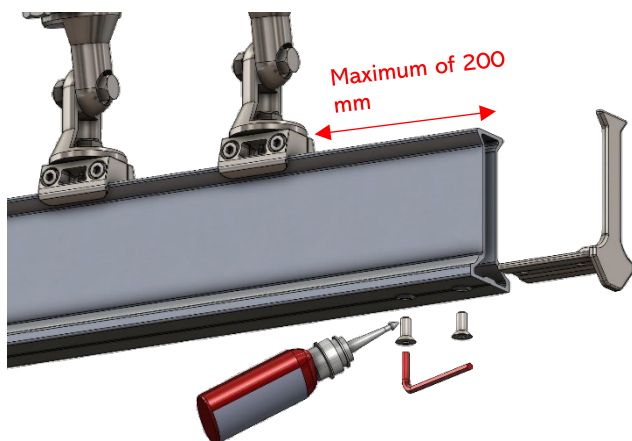
CONEKT XL LIFELINE RAILS

Installing the rail splice joint:



Splice the rails using the 4 FHC M8 screws. Adjust the tightness with a 5 mm hex key. Apply threadlocker to secure the screws.

Mounting the fixed stop and adjusting the cantilever overhang:

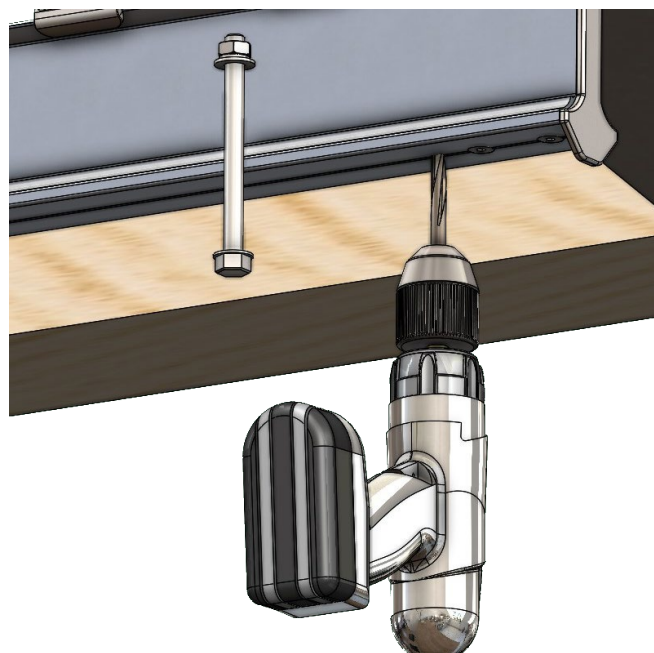


At the end of the rail, adjust the cantilever overhang to a maximum of 200 mm.

Position the stop using the 2 FHC M8 and a 5 mm hex key. Apply threadlocker to secure the screws.

Addition of a 140 mm long M12 through bolt.

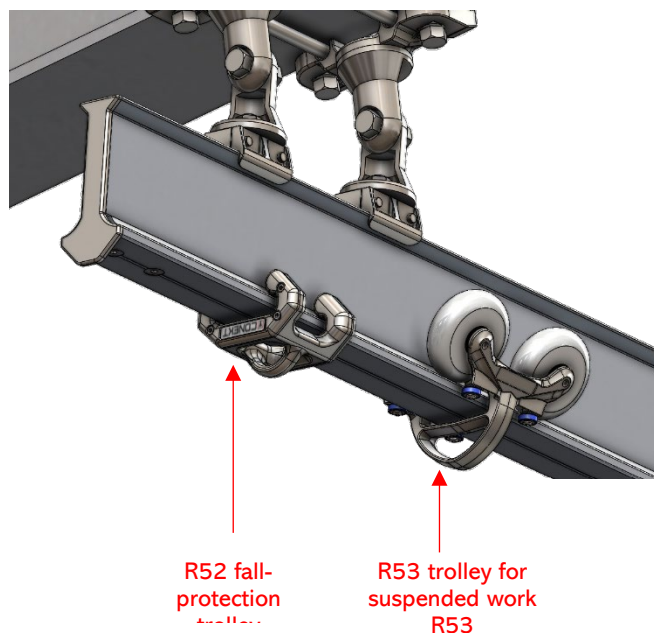
In addition to the stop, and in order to lock the rail into the fastener in the event of a major deformation of the rail, an M12 through bolt must be fitted between the stop and the first fastener.



Installation of the trolleys.

The rail allows 4 people to be secured simultaneously. The XL CONEKT rail has been designed for suspended work and long spans. For very long spans, over 6 m (up to 8 m), we recommend using reinforced splice joints.

Each trolley can be used by one person only. For suspended work, we recommend the simultaneous use of 2 R53 or R54 trolleys.



CONEKT XL LIFELINE RAILS

Finishing and checking of the installation:

Once installation is complete:

- Slide the trolleys onto the rail track.
- Tighten the bolts to the correct torque using a torque wrench.
- Test trolley operation.

Affixing the signs

The signs can be glued on or attached using self-drilling screws or rivets.

The small S21 sign should be positioned on the lifeline. It is the lifeline's identification card.



It provides users with all the information they need, including the number of persons per lifeline, the date of the last inspection and the recommended PPE.

Sign A0014061 (S20) should be positioned at the lifeline access point and includes:

- The installer's name
- The maximum number of users (usually 4)
- The date of installation.
- The date of acceptance.
- And the type of PPE recommended by the installer.

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The date of the last periodic inspection is shown on the sign, at the bottom right.



CONEKT XL LIFELINE RAILS

11. Documentation to be provided after installation

For the user, the installation documentation provides evidence that the installation has been carried out properly. Moreover, it is the essential basis for future examination of the anchoring device, given that in many cases the fixing of the anchor devices is not visible or accessible.

After installation, copies of the installation documentation should be handed over to the user. This documentation should be kept in the building for the purpose of subsequent examinations of the anchoring device.

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The installation documentation should contain at least the following information:

- address and location of the installation;
- name and address of the installation company;
- name of the person in charge of the installation;
- product identification (manufacturer of the anchor device, type, model/article);
- fastening device (manufacturer, product, permissible tensile and transverse forces);
- the schematic installation plan, for example of the roof, and relevant user information, such as where the anchor points are located (e.g. relevant in case of snow).

This schematic plan should be affixed to the building in order to be visible or available to everyone (e.g. at the roof access point). (See Figure A.1).

Declarations given by the installer in charge should be signed by the installer and should certify at least that the anchorage device:

- was installed in accordance with the manufacturer's installation instructions;
- was carried out according to the plan;
- was fixed to the specified support base;
- was fixed as specified (e.g. number of bolts, correct materials, correct position/location);
- was commissioned in accordance with the manufacturer's information;
- was supplied with photographic information/documentation, especially where fasteners (e.g. bolts) and the underlying substrate are no longer visible after completing the installation. The following figure shows an example of an installation plan.

It is recommended that, where more than one anchor point is to be photographed for identification purposes, the anchor devices should be marked with numbers, and this numbering should be incorporated into the anchor device inspection records and the schematic ground plan of the installation area.

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Plan schématique de l'installation

Bâtiment/Structure

Adresse :

Remarques :

N° de commande :

Type de commande :

Forme du toit :

Dispositif d'ancrage

Client

Nom :

Adresse :

Contact :

N° de téléphone :

Installateur

Nom :

Adresse :

Chef installateur :

N° de téléphone :

Dispositif d'ancrage

Fabricant :

Identification du modèle/type

Composant du bâtiment

Composant 1 : par exemple plafond en béton

Composant 2 : par exemple poteau en béton

Matériau de construction : par exemple béton armé

Épaisseur minimale : par exemple : 250 mm

Épaisseur minimale : par exemple : 500 mm

Qualité : par exemple : C25/30

Fixations/Goujons

Données relatives aux

☐ fixations

Données non requises
si fixation traversante
Situation réelle :

Diamètre du trou foré : _____ mm

Profondeur du trou foré : _____ mm

Couple : _____ Nm

Distance de bord Cx : _____ Cy: _____

Espacement axial Sx : _____ Sy: _____

Type: _____

Matériel : _____

Distance min. du bord (c) : _____

Espacement axial min. (s) : _____

Épaisseur min. du composant : _____

Résistance à la traction admissible

Force de rupture admissible: _____

Remarques :

Méthode de forage :

Dispositif d'essai :

☐ Marteau☐ Rotatif☐ Clé dynamométrique☐ Nettoyage du trou foré☐ Dispositif d'essai des

fixations

Choc

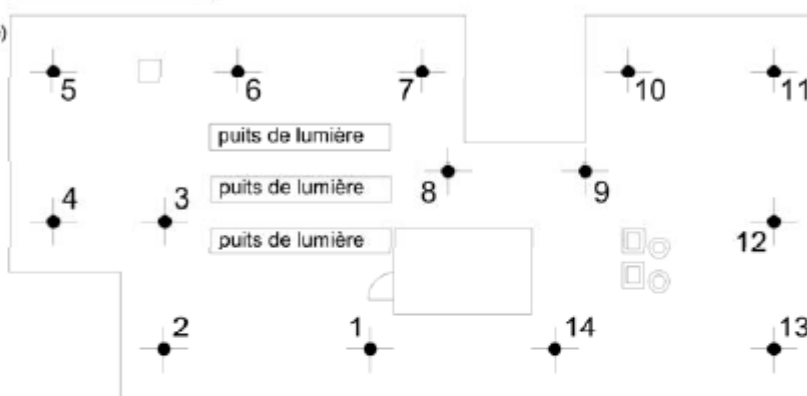
Système

☐ oui☐ Humide☐ oui☐ non☐ Sec☐ non

LISTE DE CONTRÔLE :

☐ Substrat sauf exception (aucun doute sur la capacité)☐ Installation conforme aux instructions du fabricant☐ Fixations recommandées utilisées☐ Toutes les fixations photographiées avec
numéro d'identification.☐ Fixations visibles☐ Plan d'installation apposé sur le site☐ Immobilisation des vis par technique de fixation
traversante☐ Informations complémentaires

Plan au sol du toit



Force d'arrachement (kN), couple requis (Nm) ?

Point d'ancrage 1	Point d'ancrage 5	Point d'ancrage 9	Point d'ancrage 13
Point d'ancrage 2	Point d'ancrage 6	Point d'ancrage 10	
Point d'ancrage 3	Point d'ancrage 7	Point d'ancrage 11	
Point d'ancrage 4	Point d'ancrage 8	Point d'ancrage 12	

Fixations supplémentaires :

Remarques du chef installateur :

Date :

Signature:

CONEKT XL LIFELINE RAILS

12. Checklist.

This checklist can be used not only for the CONEKT lifeline, but also the majority of lifelines on the French market.

a. Initial inspection:

The inspection of a fall-protection lifeline system consists of the following procedures:

- Checking the Work Completed Records and instructions for use and installation of lifelines and anchors.
- Verification of the recommendations concerning the fall-arrest PPE to be used with these devices.
- Verification that the installation has been carried out in accordance with the Manufacturer's instructions.
- Checking (sometimes by strength tests) the host structure, fasteners (sometimes using an extractometer), special interfaces (posts or baseplates), crimps, tightening of screws and bolts (using a torque wrench), cable tensions, welds, etc. (according to EN 795-2012).
- Analysis of technical justifications: calculation notes for interfaces or steel construction (ACCORDING TO Eurocodes 3), validation of host structure (support), Work Completed Records, etc.
- Functional tests performed by qualified technicians.

b. Periodic inspection:

Once the initial inspection has been carried out in accordance with the above recommendations, a periodic inspection mainly consists of checking the Work Completed Record, the lifeline, the signage and, if accessible, the host structure.

c. Reference documents:

To ensure compliance, we base our initial and periodic inspections on the following documents:

- Article R 4224-17 Code du Travail (Labour Code).
- Standard EN 795:2012 and TS16415:2013 type D
- Recommendation R430.

During an inspection (initial or periodic), the owner or installer must provide the inspector with the following:

- Work Completed Records (provisional or final)
- Technical specifications for the components to be inspected.

CONEKT XL LIFELINE RAILS

d. Inspection report of the fall-arrest system:

LIFELINE SYSTEM INSPECTION CHECKLIST		
Owner:	Installer:	Inspector:
Name:	Name:	Name:
Postal code and city:	Postal code and city:	Postal code and city:
Date inspected:	Date of installation:	Date of equipment purchase:

FALL-ARREST SYSTEM IDENTIFICATION NUMBER:				
VERIFICATION CHART				
1. DOCUMENTATION PROVIDED				
		YES	NO	N/A
1.1 Identification of installation location, system make and model, name and address of installation company, name of installer and date of installation. 1.2 Installation or layout plan (identification of access points, anchors and lifelines). 1.3 Work Completed Records ○ Lifeline calculation notes ○ Calculation notes for the host structure. ○ Certificate of compliance with standard NF EN 795. 1.4 Assembly and installation instructions. 1.5 Instructions for use. 1.6 Certificate signed by the installer attesting to having followed all the manufacturer's installation recommendations, along with photos of the tests, particularly when the fasteners and underlying support are no longer visible. 1.7 Initial acceptance report. 1.8 Previous periodic inspection report.				
2. SIGNAGE				
2.1 Identification. (Presence of signs, bearing the correct required information)				
3. ANCHORS				
3.1 The structural anchors are made of stainless steel and feature an anti-loosening system. 3.2 General appearance. Chemical anchors were tested using an extractometer (500 daN 15s). Metal fasteners were torque-tested. 3.3 Apparent condition of the host structure.				

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4. CONEKT RAIL LIFELINE				
4.1 The interfaces have been installed in accordance with the installation rules and guidelines. See specific instructions. 4.2 Moving parts and rails are free from defects such as corrosion, cracks, etc. 4.3 The cantilever overhang is between 100 and 200 mm for the standard rail and for the XL rail. 4.4 The maximum distance between 2 anchors is less than 5.9 m in the roof-mounted configuration and 4 m in the ceiling-mounted configuration. 4.5 Rail fasteners are placed on interfaces in compliance with EN 795:2012 and TS16415:2013 type D, i.e. 1500 daN for 4 persons. 4.6 At least 2 fasteners must be present on the rail lifeline. 4.7 A stop is provided at each end of the rail.				
5. TEST				
5.1 Tensile testing of installed structural anchors (if applicable) 5.2 Check of the tightness of installed components.				
COMMENTS:				
VERDICT:			YES	NO
Inspected systems are suitable for service:				
Date of next inspection:				

IDENTIFICATION AND APPROVAL OF INSPECTOR:

Name:

Address:

Inspector's approval:

The inspector accepts no responsibility for any inaccuracies in the information relating to the historical verification which must be carried out by the user.

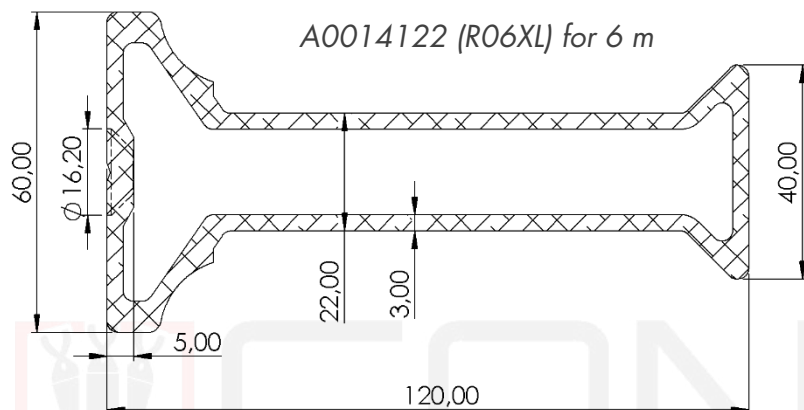
CONEKT XL LIFELINE RAILS

13. PRODUCT DATA SHEETS

CONEKT XL rail 3 m or 6 m lengths

Reference number: A0014120 (R03XL) for 3 m

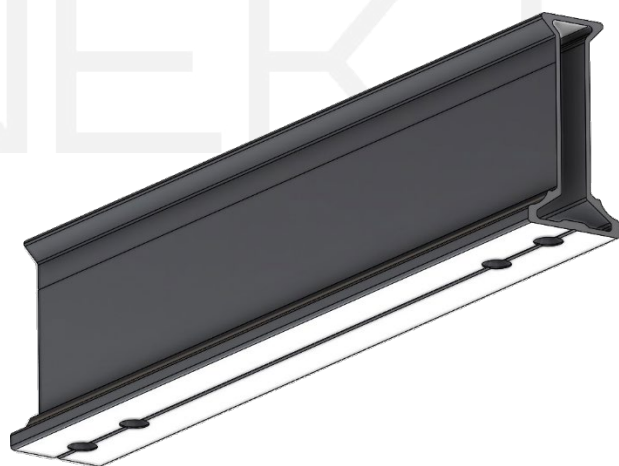
A0014122 (R06XL) for 6 m



Description: The CONEKT rail has a closed I-beam profile, ensuring high bending and torsional rigidity.

A curved form has been added under the main flange to optimize the rolling of AF76 85A wheels at a 40° angle.

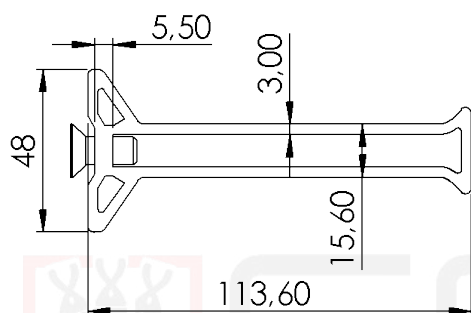
The rail is connected to the splice joints, end stops and corner pieces with 2 FHC M8 screws in 316 grade stainless steel.



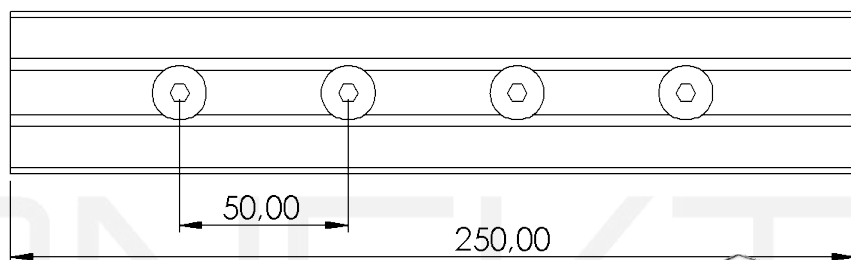
Composition:	6063 aluminum alloy
Finish:	Anodizing Type AOD
Section and length:	60*120 mm, 3 mm thick. Sections of 3 m and 6 m.
Approved standards:	NF EN795:2012 type D & TS:16415/2013
Weight:	3210 g / ml

XL Splice joint:

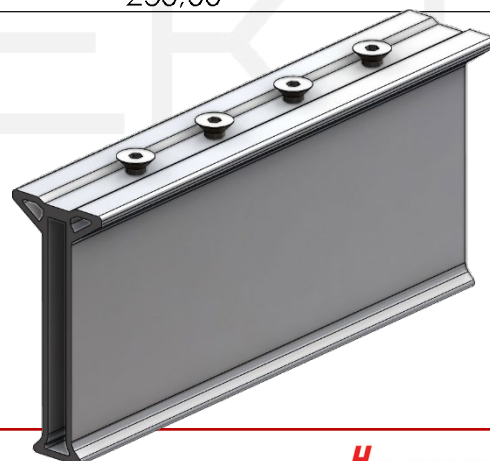
Reference no.: A0014128 (R20XL)



Description: Splice joint allows connection of 2 CONEKT XL rails with 4 FHC M8 20 mm long screws in 316 grade stainless steel.



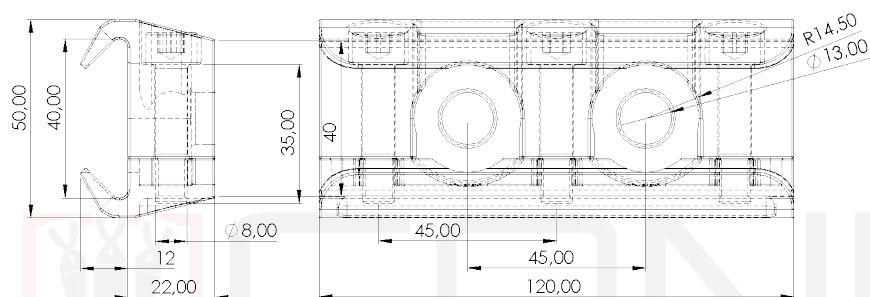
Composition:	6063 aluminum alloy
Finish:	Anodizing Type AOD
Section and length:	60*120 mm, 3 mm thick.
Approved standards:	NF EN795:2012 type D & TS:16415/2013
Weight:	720g



CONEKT XL LIFELINE RAILS

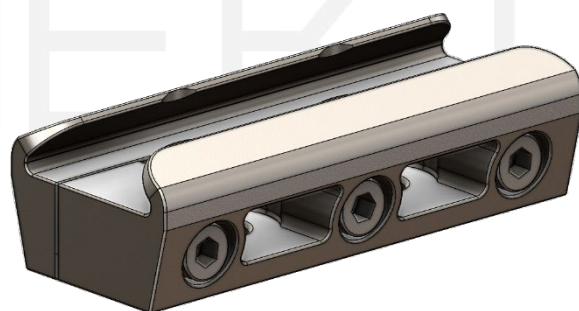
Wide rail anchor

Reference no.: A0014134 (R25XL)



Description: Wide rail fastener to connect CONEKT XL profile to host structure using 2 x 30 mm M12 screws.

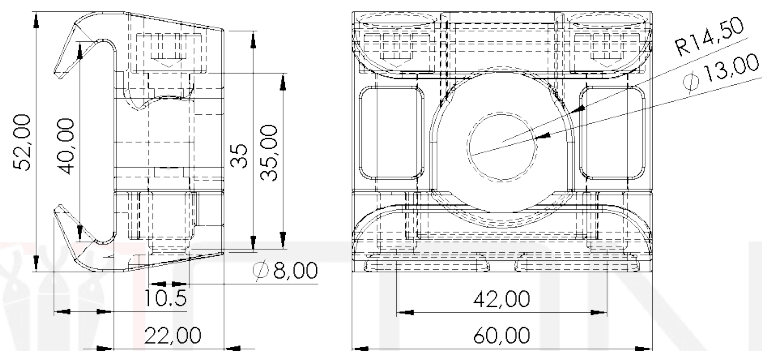
The rail is tightened using 3 x 35 mm CHC M8 screws. 2 M8 washers can be inserted between the 2 parts of the anchors to relieve pressure and thermal expansion.



Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Hardware:	3 CHC M8 screws 35mm long + 3 M8 washers
Approved standards:	NF EN795:2012 type D & TS:16415/2013
Weight:	850g

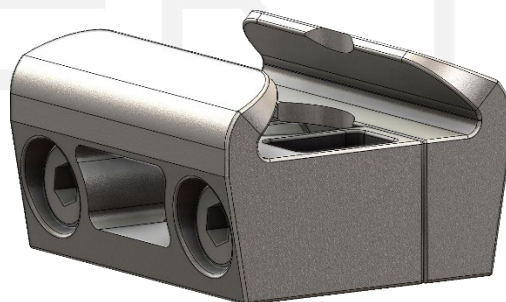
Standard rail fastener

Reference number: A0014133 (R25)



Description: Standard rail fastener for connecting standard and XL CONEKT profiles to the host structure using one 30 mm M12 screw.

The rail is tightened using 2 x 35 mm CHC M8 screws. 2 M8 washers can be placed between the 2 parts of the fastener to relieve pressure and thermal expansion.

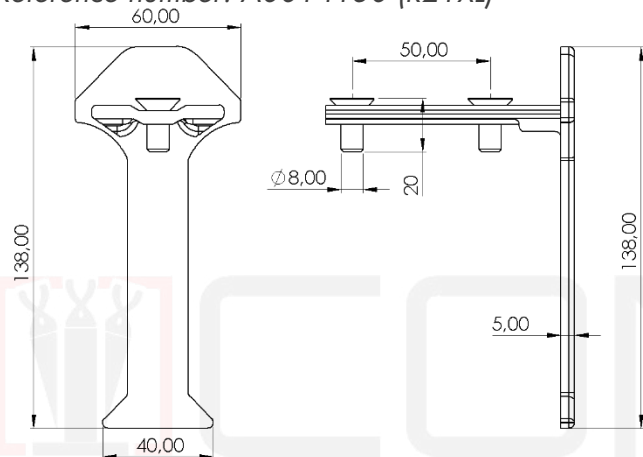


Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Hardware:	2 CHC M8 screws 35mm long + 2 M8 washers
Approved standards:	NF EN795:2012 type D & TS:16415/2013
Weight:	400g

CONEKT XL LIFELINE RAILS

XL fixed end stop

Reference number: A0014130 (R21XL)



Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Hardware:	4 FHC M8 stainless steel screws 20 mm long
Approved standards:	NF EN795:2012 type D & TS:16415/2013
Weight:	400g

Description: End stop in 304 grade stainless steel with 2 FHC M8 screws 20 mm long.

Stops trolley travel at the end of the lifeline.

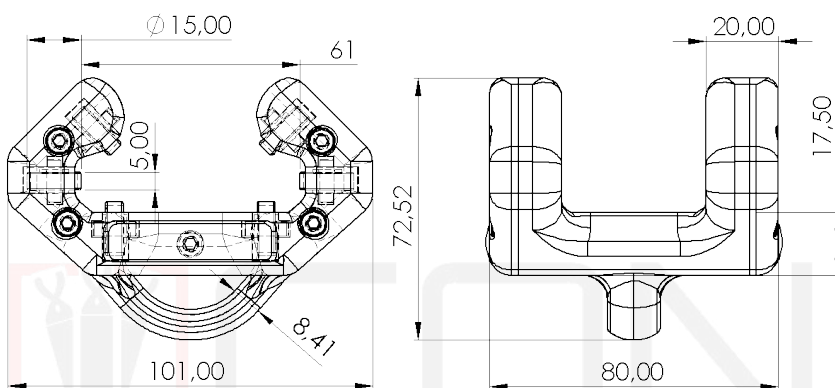
Supplied with an M12 through bolt.



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Wheeled trolley

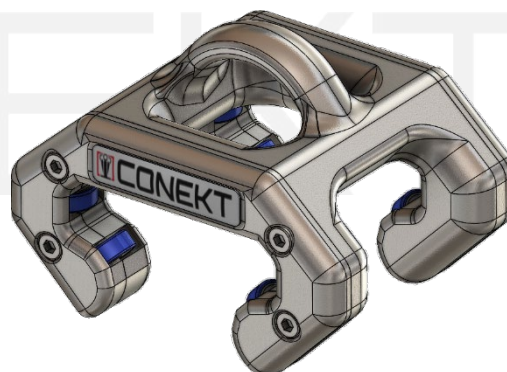
Reference number: A0014139 (R52)



Composition:	304 grade stainless steel
Finish:	Passivation
Breaking strength :	1600 daN
Approved standards:	NF EN795:2012 type D
Weight:	1100g

Description: R52 wheeled trolley in 304 grade stainless steel. This trolley can be used in ground, wall or ceiling configurations.

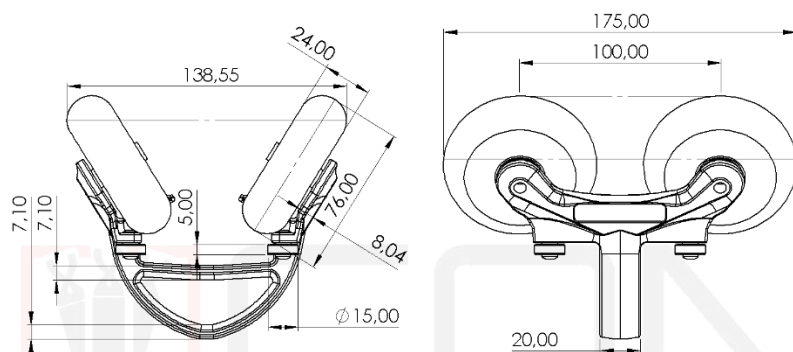
This trolley glides smoothly along the lifeline thanks to its 12 D15 rollers, and can be used with any type of retractable fall arrester.



CONEKT XL LIFELINE RAILS

Rope access trolley

Reference number: A0014140 (R53)

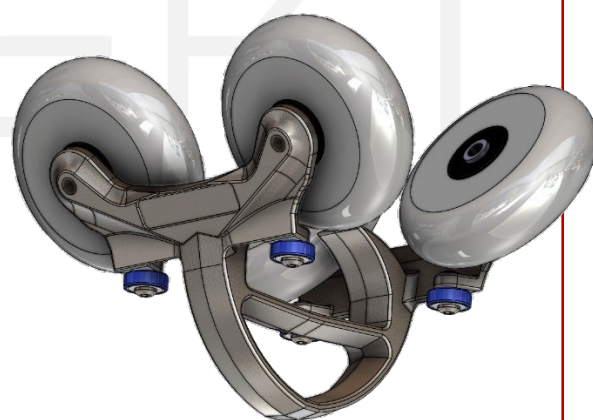


Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Breaking strength :	1500 daN
Approved standards:	NF EN795:2012 type D
Weight:	1200g

Description: 304 grade stainless steel trolley with 4 D15mm roller castors and 4 D76 polyurethane ball bearing wheels. This trolley can only be used with ceiling-mounted systems.

This easy-glide trolley rolls smoothly and effortlessly and can be used with any type of self-retracting fall arrester, making it ideal for suspended work.

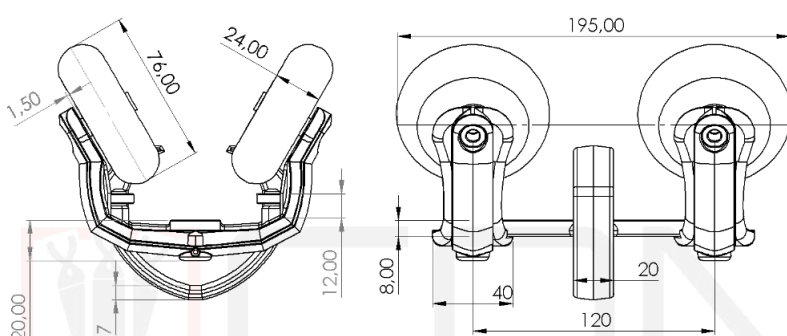
This trolley can only be used in a straight line rail system.



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Articulated rope access trolley

Reference number: A0014141 (R54)



Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Breaking strength :	1500 daN
Approved standards:	NF EN795:2012 type D & TS:16415/2013
Weight:	1900g

Description: 304 grade stainless steel trolley with 4 D15mm rollers and 4 D76 mm polyurethane wheels with roller bearings. This trolley can only be used with ceiling-mounted systems. This easy-glide trolley rolls smoothly and effortlessly and can be used for suspended work.

This articulated trolley can be used on curved rails. It cannot be used on R10-type corner angle rails.

