

TECHNICAL SPECIFICATIONS & INSTALLATION INSTRUCTIONS



VERSION :

21-03-24

**CONEXT RAIL
LIFELINE**

CONEKT 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 EN/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 to provide protection for up to 4 users simultaneously.

CONEKT rail lifeline installations can have spacing distances between two intermediate points up to a maximum of 6 m on roofs and 4 m on ceilings.

A full-body safety harness is the only body-support device permitted for use in a fall-arrest system.

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 perform a visual inspection to verify that:

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

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A system must be immediately withdrawn from service if doubts arise as to its safety, or if it has been used to stop a fall.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 as safe for use in writing by a competent person.

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 prior to use.
- A rescue plan and the means to implement it must be put in place to deal with any emergencies that could arise during the work.

Please note that no alterations 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 lifeline 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

CONEKT LIFELINE RAILS

be performed in such a way as to minimize the risk of falls and the height of the fall.

If possible, the CONEKT rail lifeline should be ideally 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 by means of a suitable fall-arrest system (self-retracting fall-arrest device or lanyard), at the sternal or dorsal attachment point of the harness.

CONEKT rail lifelines have a rigid design. Deformation during use is negligible. In the event of a fall, the maximum deformation is 525 mm.

These lifelines 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.

3. LIMITATIONS OF USE

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.).

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

CONEKT LIFELINE RAILS

daN for 15 seconds. Please note that this test must be conducted before installing the Conekt components. Performing this test with the lifeline 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.

4. WARRANTY, CARE AND MAINTENANCE

CONEKT rail lifelines are guaranteed for 5 years.

Lifelines designed with CONEKT rail system components 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 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 overall condition. The CONEKT 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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6. CERTIFICATE OF CONFORMITY



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Accréditation n° I-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 CONEKT 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



Validation électronique

Seuls les essais décrits dans les normes harmonisées marquées d'un astérisque sont effectués sous couvert d'accréditation COFRAC; le marquage et la notice ne sont pas couverts par l'accréditation COFRAC. QUINTIN CERTIFICATIONS n'autorise pas la reproduction partielle de ce document et la reproduction du logo Cofrac. Ce certificat ne concerne que l'équipement soumis à essai. La reproduction intégrale de ce document est seule autorisée.

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 SARL au capital de 10 000 € - SIREN 848 919 676 - TVA Intracommunautaire FR81848919676

QC-150-VS- Attestation de conformité Cofrac tr/RQC2023-009 A Fr_ Echelle Européenne

CONEKT 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.

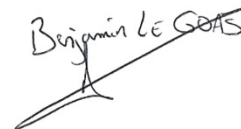
La liste des composants concernés est la suivante : R03, R06, R03XL, R06XL, R10, R13, R20, R20XL, R21, R21XL, R22, R25XL, R50, R52 et R53.

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

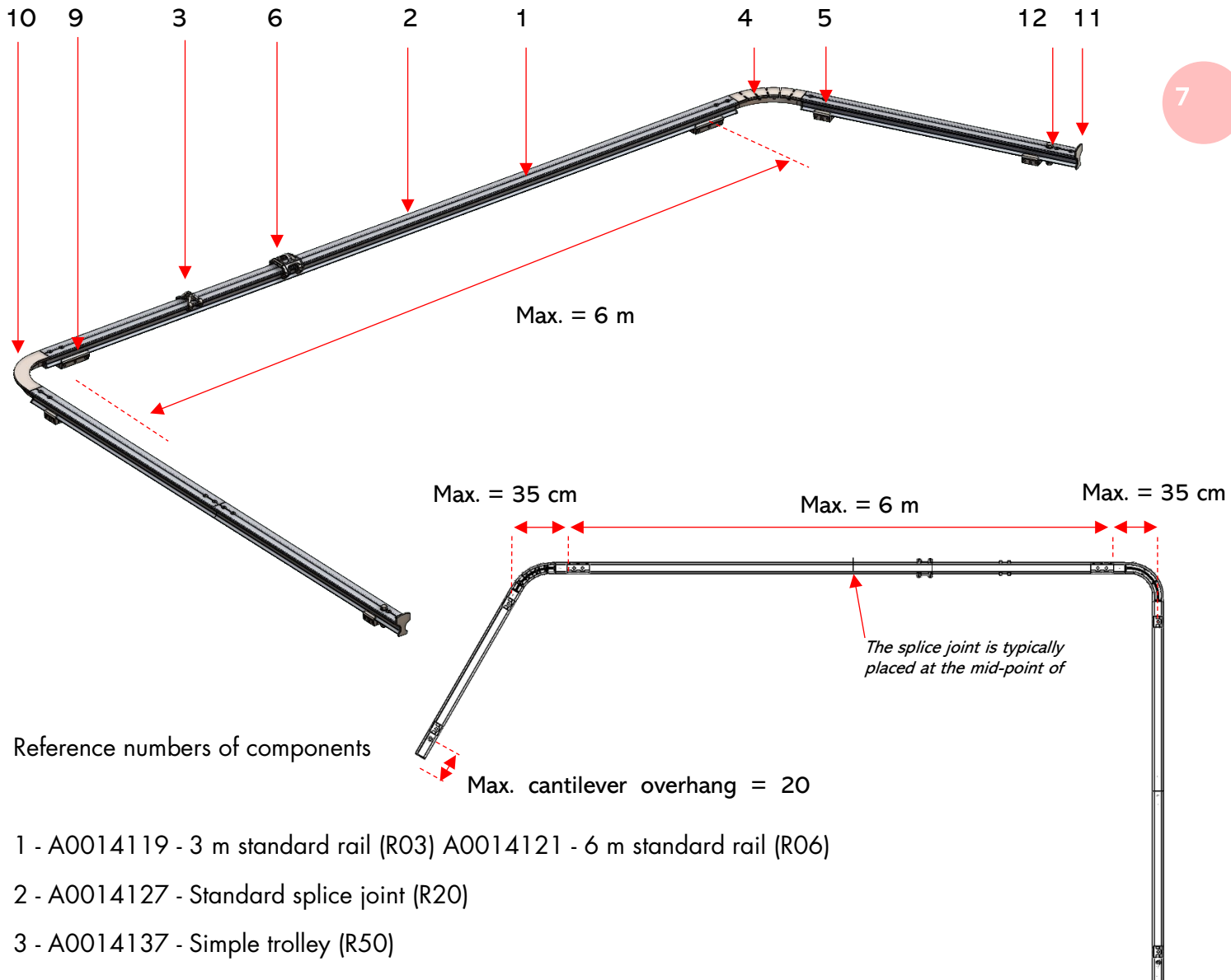


L'Echelle Européenne SAS au capital de 1 038 112,25 euros - RCS Montpellier 378 658 827 00035
 APE 8229Z - N° TVA : FR84378658827
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7. SYSTEM COMPONENTS

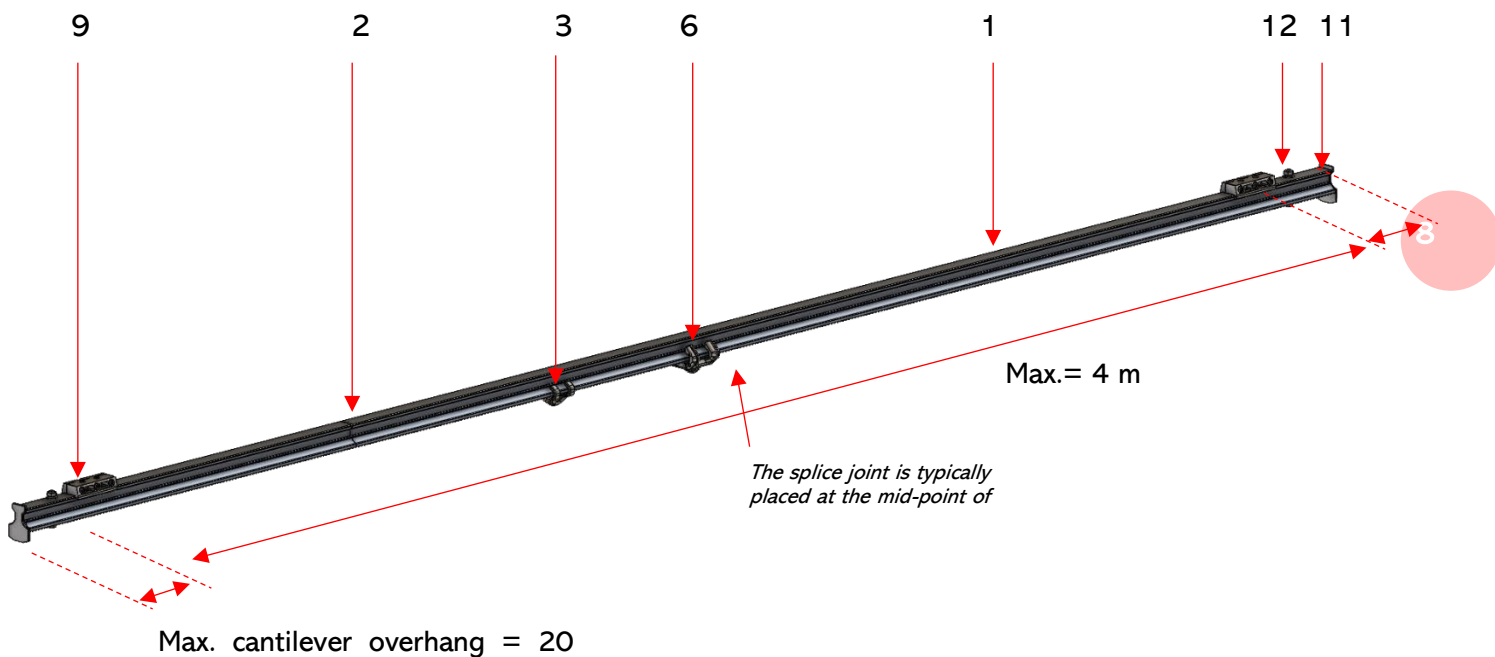
a. STANDARD version for roof-mounted system.



- 1 - A0014119 - 3 m standard rail (R03) A0014121 - 6 m standard rail (R06)
- 2 - A0014127 - Standard splice joint (R20)
- 3 - A0014137 - Simple trolley (R50)
- 4 - A0014126 - Corner rail with adjustable angle from 100° to 150° (R13)
- 5 - A0014133 - Standard rail fastener (R25)
- 6 - A0014139 - Wheeled trolley (R52)
- 10 - A0014123 - Corner rail with 90° fixed angle (R10)
- 11 - A0014129 - Standard fixed end stop (R21)
- 12 - M10 locking screw

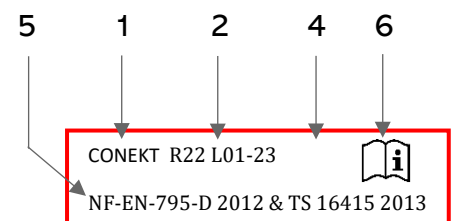
CONEKT LIFELINE RAILS

b. STANDARD version for ceiling-mounted system:



Reference numbers of components

- 1 - A0014119 - Standard rail (R03) - Standard rail 6 m (R06)
- 2 - A0014127 - Standard splice joint (R20)
- 3 - A0014137 - Simple trolley (R50)
- 6 - A0014139 - Wheeled trolley (R52)
- 9 - A0014133 - Standard rail fastener (R25)
- 11 - A0014129 - Standard fixed end stop (R21)
- 12 - M10 locking screw

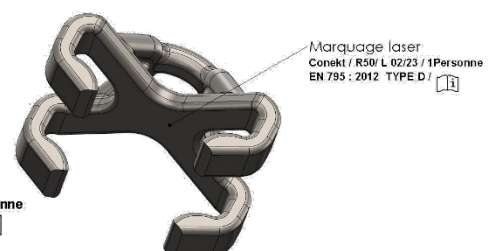


For trolleys:

It is possible to create a corner with components R10 and R13 on the ceiling using the standard rail. CAUTION, in this case, suspended work is not possible. Installing a corner is not possible on the XL rail, except for specific custom cases and after consulting with CONEKT's technical service

8. 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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9. MAIN COMPONENTS

Straight aluminum rail

REF. NO.: A0014119 (R03) IN 3 M LENGTH

REF. NO.: A0014121 (R06) IN 6 M LENGTH

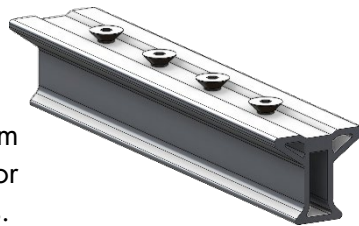


Anodized aluminum rail, in standard lengths of 3 m and 6 m. The rail section is 50 mm high and 60 mm wide.

Standard splice joint

REF. : A0014127 (R20)

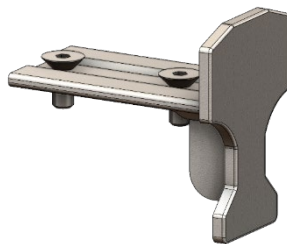
Anodized aluminum splice joint for connecting 2 standard rails.



Fixed end stop

REF. : A0014129 (R21)

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



This stop must be used in conjunction with an M10 locking screw.

Standard rail fastener

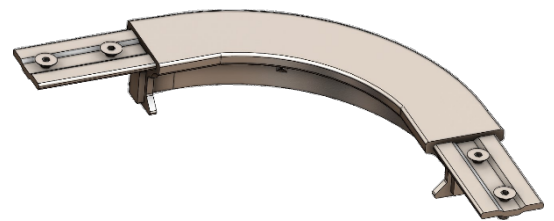
REF. : A0014133 (R25)

Rail fastener for mounting on a support with an M12 HC stainless steel screw for fastening standard fastening.



90° fixed-angle corner rail.

REF. NO.: A0014123 (R10)

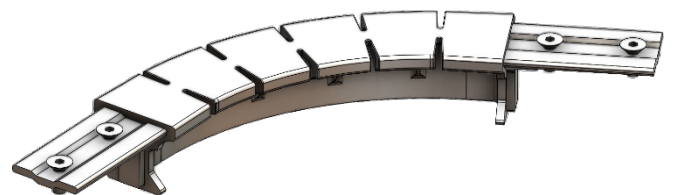


90° fixed-angle corner rail for R50 and R52 trolleys. R53 and R54 trolleys are not compatible with this type of rail. This component is made of 304 grade stainless steel + epoxy paint.

It can be used on ground-mounted systems. The top and bottom angles are created by bending the rail.

Adjustable angle from 100° to 150°.

REF. : A0014126 (R13)



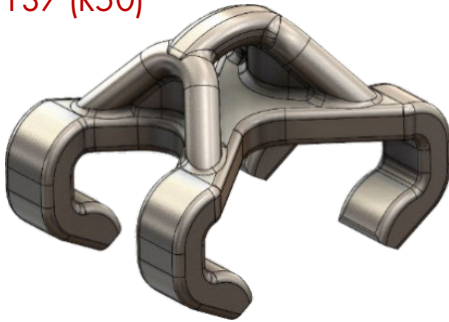
Angle adjustable from +30° and -20° on a 120° base. The angle can be varied using a lever arm with a rail element.

It is possible to create a corner with components R10 and R13 on the ceiling using the standard rail. CAUTION, in this case, suspended work is not possible. Installing a corner is not possible on the XL rail, except for specific custom cases and after consulting with CONEKT's technical service

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Simple trolley

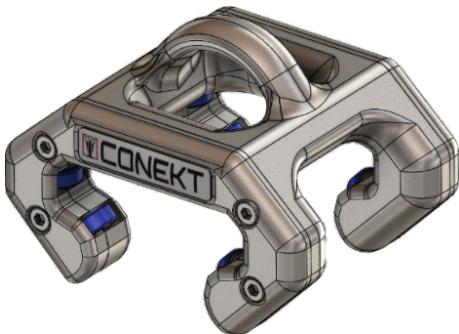
REF NO.: A0014137 (R50)



Standard 304 grade stainless steel trolley. This trolley can be used with ground, wall or ceiling configurations. This trolley is designed for short rail tracks. The user must remain close to the rail to ensure that the trolley glides smoothly.

Wheeled trolley

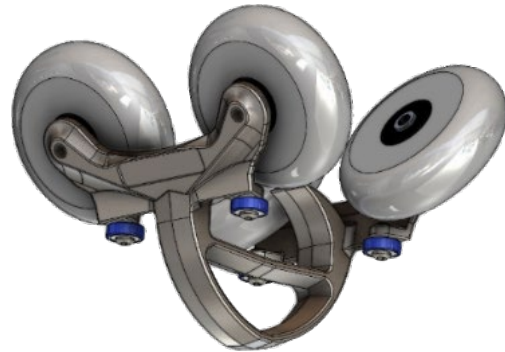
REF. NO. : A0014139 (R52)



304 grade stainless steel wheeled trolley. This trolley can be used with 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 self-retracting fall-arrester.

Rope access trolley

REF NO.: A0014140 (R53)



304 grade stainless steel trolley with 4 D15mm roller castors and 4 D76 mm polyuretha 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 system.

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TYPE OF TROLLEY	Use in the following configuration:			Use (with // in)			
	Ground-mounted system	Wall-mounted system	Ceiling mounted-system	RFA (Retractable Fall Arrester)	Suspension	Curved rail	R10 corner angle
R50	✓	✓	✓			✓	✓
R52	✓	✓	✓	✓ *		✓	✓
R53			✓	✓	✓		

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

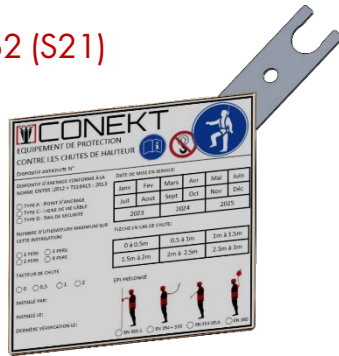
CONEKT LIFELINE RAILS

10. MARKING

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

Lifeline data plate

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:

- Manufacturer's name: 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)
- Date of acceptance.
- Date of last inspection.

Additional information to be filled in:

- Date of installation.
- And the type of PPE recommended by the installer.
- Installer's name

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

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

Sign to be placed at the access point of the lifeline

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 receipt.
- Name of inspector (Last periodic inspection) and date of this inspection.

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11. 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:

- **M8 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 to resist 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°.

a. Mounting the standard rail track.

Main rules for mounting standard rails on roofs.

- **Maximum spacing 6 m.**
- **Maximum cantilever overhang 200mm**
- **Double the rail end fasteners if the final span is greater than 5 m.**
- **Fasteners before and after R10 and R13 corner angle and curved rails. (Less than 350 mm)**
- **Install an M10 screw on the underside of the rail in addition to the stops to prevent the rail from sliding at the end.**



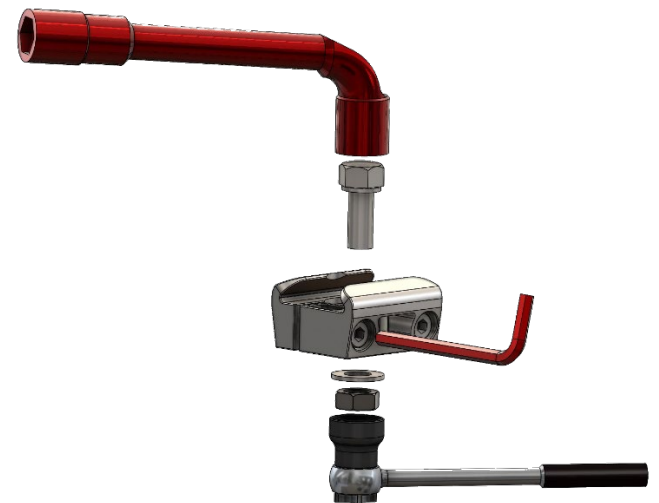
Main rules for mounting standard rails on ceilings.

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- **Maximum spacing 4 m.**
- **Maximum cantilever overhang 200mm.**
- **Angle possible with R10 and R13 on the ceiling using the standard rail. Caution, suspended work is not possible in this case.**
- **Installing a corner is not possible on the XL rail, except for specific custom cases and after consulting with CONEKT's technical service.**

Mounting rail fasteners:

The example used in these assembly instructions is an installation on a corrugated steel panel roof.

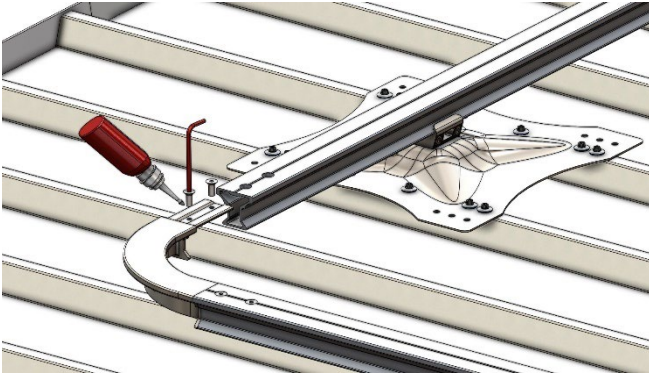


Loosen the standard R25 fasteners using a 6 mm hexagonal wrench and screw the rail fastener to the support base using a ratchet wrench with a 19 mm socket and a 2nd 19 mm wrench.

Install the rail fastener using an M12 stainless steel screw bolt of a sufficient length. The bolts must have an anti-loosening system. CONEKT supplies a grower washer. Tighten fastener to torque.

CONEKT LIFELINE RAILS

Mounting the rails and R10 corner angle piece:

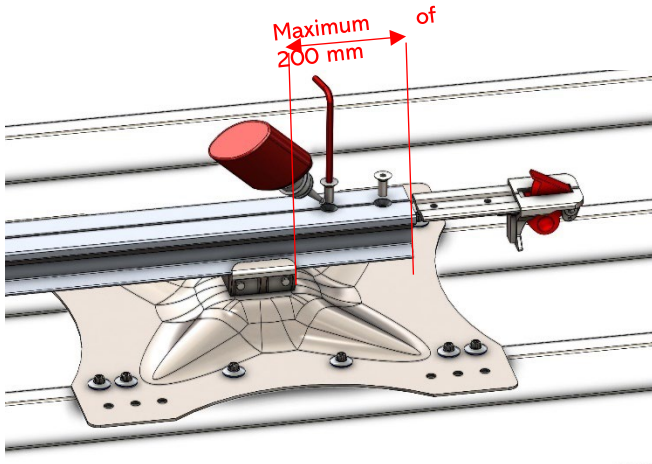


Position the rail in the fasteners, and slide it into the R10 corner angle piece.

Apply threadlocker to the threads and secure the rail in the angle piece with 4 M8 screws, using a 5 mm hex key wrench.

The R20 rail extension is mounted in the same way.

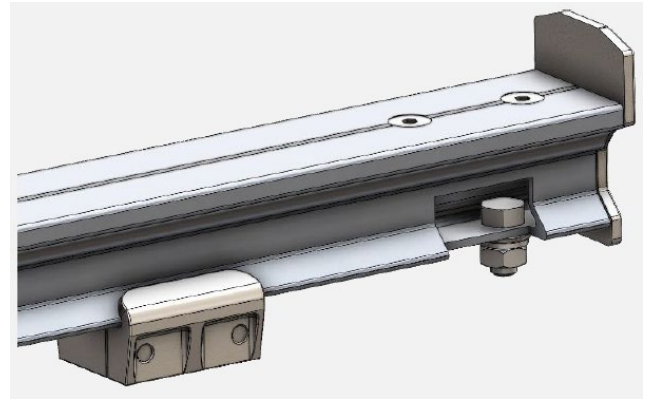
Installing the R21 and R22 end stops:



At the end of the rail, the cantilever overhang must be less than 200 mm.

An M10 locking screw must be fitted to the underside of the rail, 35 mm from the end of the rail, to prevent the rail from sliding in the R25 fastener.

Apply threadlocker to the threads and secure the rail into the end stop with 2 M8 screws, using a 5 mm hex key wrench.



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Finishing and checking of the installation:

Once installation is complete:

- Slide the trolleys onto the rail.
- 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.

The S20 sign should be positioned at the lifeline access point and includes the following:

- Installer's name
- Maximum number of users (usually 4)
- Date of installation.
- Date of acceptance.
- And the type of PPE recommended by the installer.



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

CONEKT LIFELINE RAILS

12. 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 undersigned by him/her and should contain, at least, information 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 support base are no longer visible after completing the installation. The following gives 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.

CONEKT LIFELINE RAILS

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 : _____

Espacement axial Sx : _____



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.

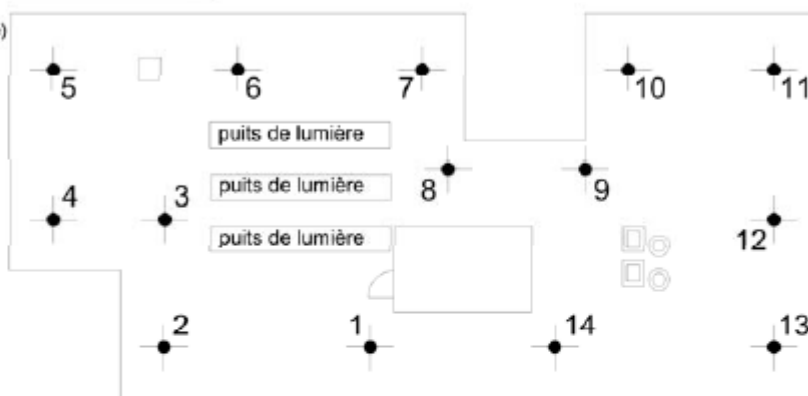
☐ Fixations visibles

☐ 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 LIFELINE RAILS

13. Checklist.

This checklist can be used not only for the CONEKT lifeline, but also for 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-protection PPE to be used with these devices.
- Verification that the installation has been carried out in accordance with the Manufacturer's instructions.
- Verification (sometimes by strength tests) of the host structure, fixings (sometimes using an extractometer), special interfaces (posts or plates), crimps, tightening (using a torque wrench), cable tensions, welds... (according to EN 795-2012).
- Analysis of technical justifications: calculation notes for interfaces or metal construction (ACCORDING TO Eurocodes 3), validation of host structure (support), Work Completed Records, etc.
- Functional tests carried out by qualified technicians.

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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 LIFELINE RAILS

d. Inspection report of the fall-prevention 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-PROTECTION 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 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 base 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 Appearance of the host structure.				

CONEKT LIFELINE RAILS

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4. CONEKT RAIL LIFELINE				
4.1 The interfaces have been installed in accordance with the installation rules. See specific instructions. 4.2 Moving parts and rail 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 fasteners 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 installed 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 tightness of installed components.				

COMMENTS:

VERDICT:		
Inspected systems are suitable for service:	YES	NO
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.

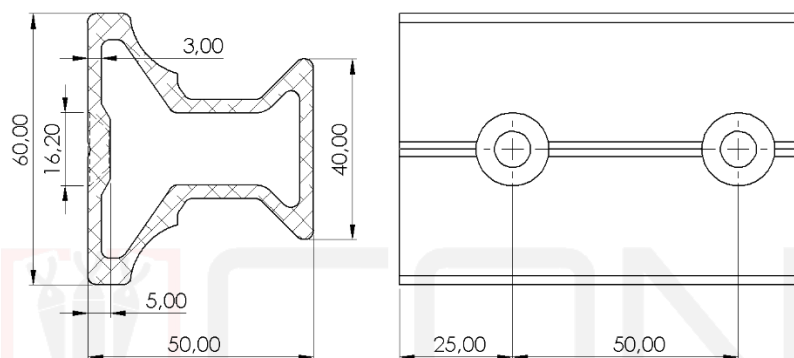
CONEKT LIFELINE RAILS

14. PRODUCT FEATURES

CONEKT 3 m or 6 m rail

Reference number: A0014119 (R03) for the 3 m rail

A0014121 (R06) for the 6 m rail



Composition:	6063 aluminum alloy
Finish:	Anodizing Type AOD
Section and length:	60*50 mm, 3 mm thick. 3 m and 6 m. rail sections.
Approved standards:	EN 795: 2012 and TS16415: 2013 type D
Weight:	2030g / ml

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

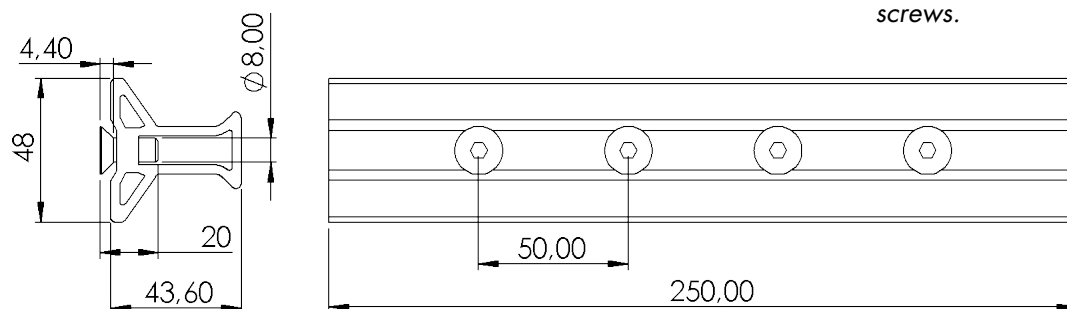
A rounded form has been added under the main flange to optimize the rolling of AF76 85A wheels at a 40° angle. This angle eliminates the need for rail fasteners.

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



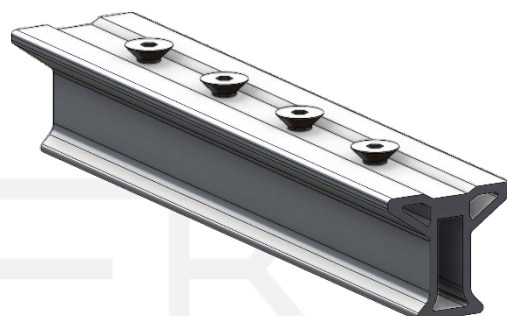
Standard CONEKT rail splice joint

Reference number: A0014127 (R20)



Composition:	6063 aluminum alloy
Finish:	Anodizing Type AOD
Section and length:	48*44 mm, 3 mm thick.
Approved standards:	EN 795: 2012 and TS16415: 2013 type D
Weight:	440g

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



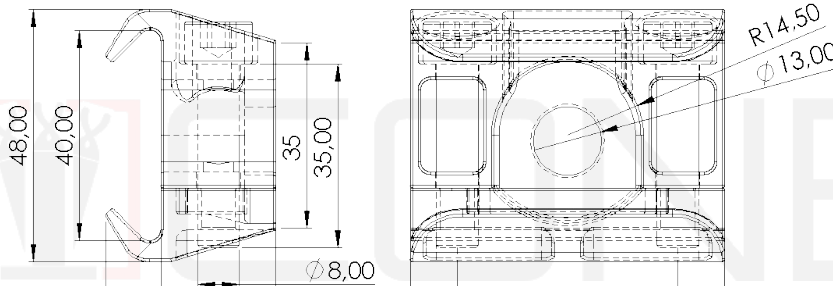
CONEKT LIFELINE RAILS

Standard CONEKT rail fastener

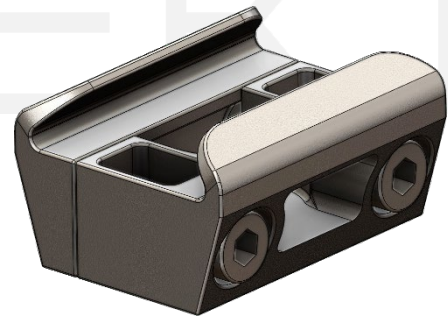
Reference number: A0014133 (R25)

Description: Rail anchor fastener for connecting standard CONEKT profiles to the host structure using a 30 mm M12 screw.

The rail is tightened using 2 x 35 mm M8 CHC 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 M8 CHC screws 35mm long + 2 M8 washers
Approved standards:	EN 795: 2012 and TS16415: 2013 type D
Weight:	400g



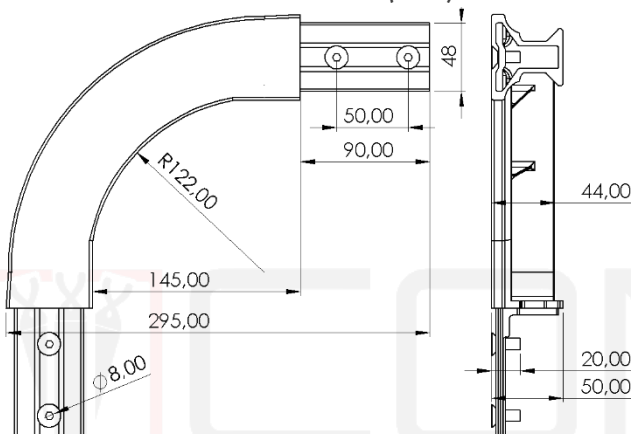
90° fixed-angle corner rail.

Reference number: A0014127 (R20)

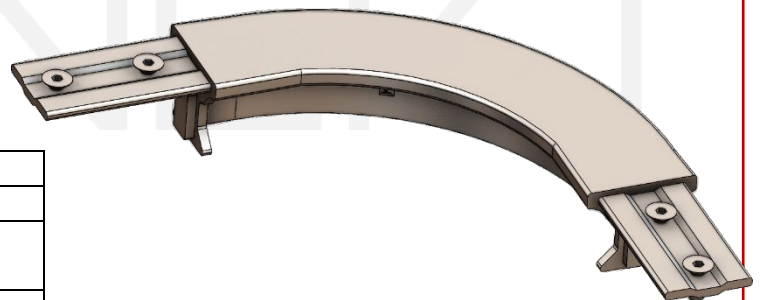
Description: 90° fixed-angle corner to connect 2 CONEKT Standard rails with 4 FHC M8 20 mm long screws in 316 grade stainless steel.

Only R50 and R52 trolleys are compatible with this type of rail.

It is possible to create a corner with the component R10 on the ceiling using the standard rail. CAUTION, in this case, suspended work is not possible. Installing a corner is not possible on the XL rail, except for specific custom cases and after consulting with CONEKT's technical service.



Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Hardware:	4 FHC M8 stainless steel screws 20 mm long
Approved standards:	EN 795: 2012 and TS16415: 2013 type D
Weight:	1650g



CONEKT LIFELINE RAILS

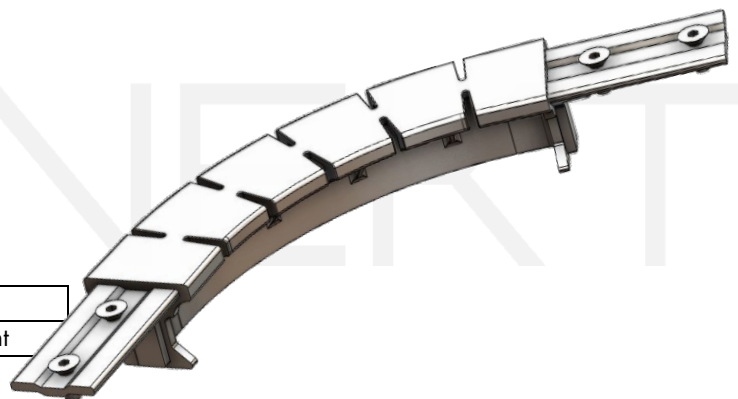
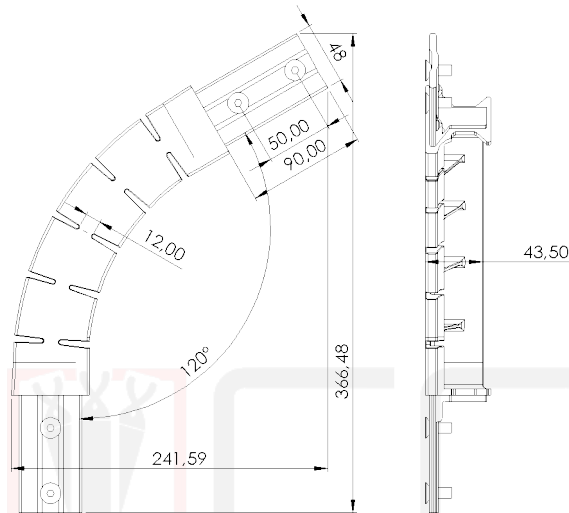
Adjustable angle from 100° to 150°.

Reference number: A0014126 (R13)

Description: Adjustable-angle corner rail with 120° base. Once attached to a rail, close to a fastener, the angle can be adjusted from 100° to 150°.

Only R50 and R52 trolleys are compatible with this type of rail.

It is possible to create a corner with the component R13 on the ceiling using the standard rail. CAUTION, in this case, suspended work is not possible. Installing a corner is not possible on the XL rail, except for specific custom cases and after consulting with CONEKT's technical service.



Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Hardware:	4 FHC M8 stainless steel screws 20 mm long
Approved standards:	EN 795: 2012 and TS16415: 2013 type D
Weight:	1550g

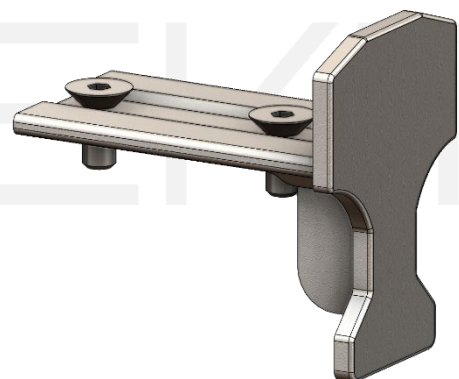
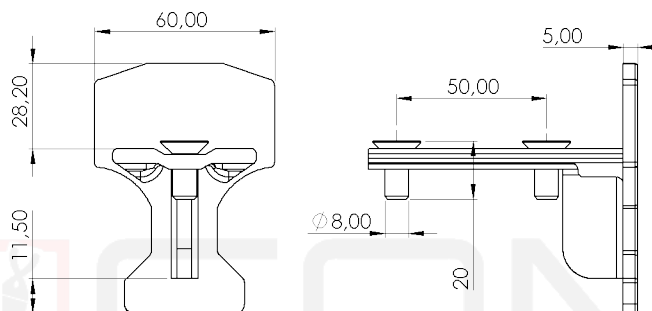
Standard fixed end stop

Reference number: A0014129 (R21)

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

Stops trolley travel at the end of the lifeline.

Supplied with an M10 locking screw.

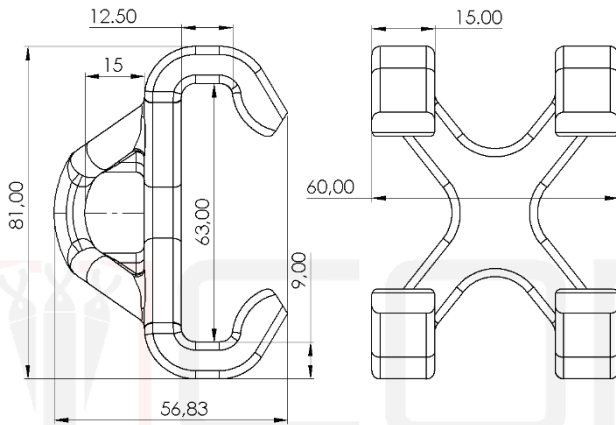


Composition:	304 grade stainless steel
Finish:	Passivation + epoxy paint
Hardware:	2 FHC M8 stainless steel screws 20 mm long
Approved standards:	EN 795: 2012 and TS16415: 2013 type D
Weight:	300g

CONEKT LIFELINE RAILS

Simple trolley

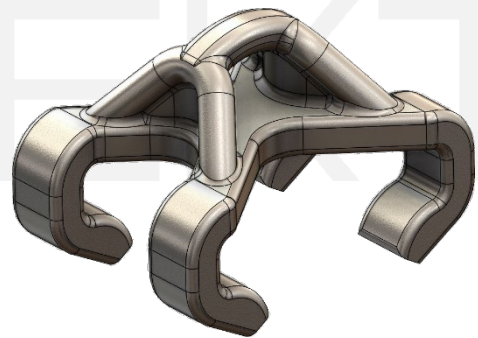
Reference number: A0014137 (R50)



Composition:	304 grade stainless steel
Finish:	Passivation
Breaking strength:	1450 daN
Approved standards:	EN 795:2012 type D
Weight:	400g

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

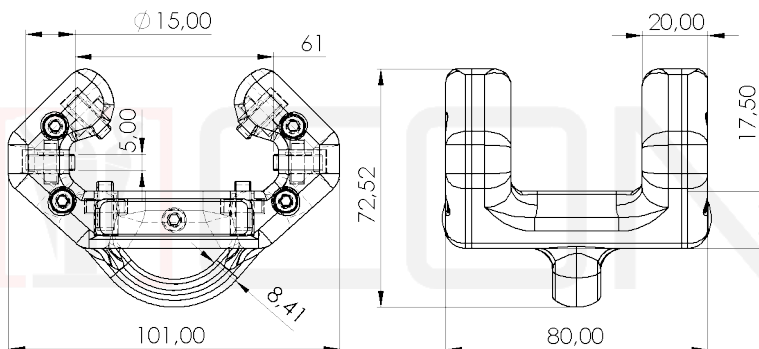
This trolley is designed for short rail tracks. The user must remain close to the rail to ensure that the trolley glides smoothly.



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Wheeled trolley

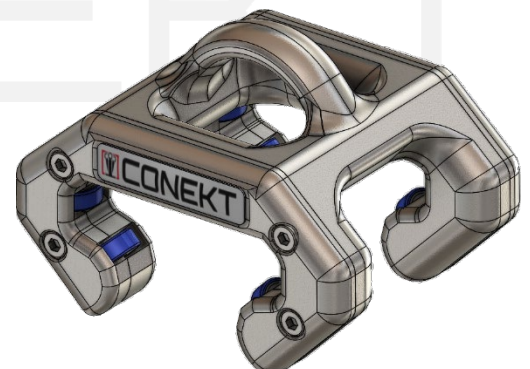
Reference number: A0014139 (R52)



Composition:	304 grade stainless steel
Finish:	Passivation
Breaking strength:	1600 daN
Approved standards:	EN 795:2012 type D
Weight:	1100g

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

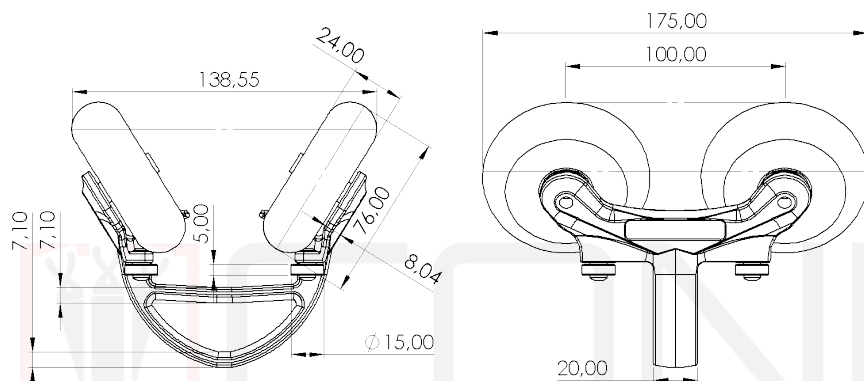
This trolley glides smoothly along the lifeline thanks to its 12 D15 rollers, and can be used with any type of retractable fall arrester.



CONEKT 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: R53 trolley in 304 grade stainless steel with 4 D15 mm casters and 4 D76mm 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 with any type of self-retracting fall arrester, making it ideal for suspended work.

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

