TECHNICAL SPECIFICATIONS & INSTALLATION INSTRUCTIONS INSTRUCTIONS FOR USE

Installation instructions NOT-EN-107

POSTS P300/P500

Version 31-10-23 (October 31, 2023)

POSTS P300/P500

1. PREAMBULE

The CONEKT line of rigid posts (P300, P500, etc.) are part of the CONEKT range of anchors and lifelines from the L'Echelle Européenne network of height specialists.

The P500, P300, ANCREE, and ANCREE 700 interfaces, along with the associated plates, clamps and fasteners allow Conekt lifelines to be fixed directly to concrete slabs or the structural framework of a building.

CONEKT fall-arrest systems provide safe movement and secure worksites for all types of personnel or technical operators working at heights on a building or machine.

When used in conjunction with fall-protection PPE (Personal Protective Equipment), CONEKT lifelines and anchors 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
455 rue Henri Farman
34430 SAINT JEAN DE VEDAS
Tél : 0467 27 36 55
Email: info@echelle-europeenne.com
Website: www.echelle-europeenne.com

Le harnais d'antichute est le seul dispositif de préhension du corps qu'il est permis d'utiliser dans un système d'arrêt des chutes.

2. WARRANTY, CARE AND MAINTENANCE

CONEKT components are guaranteed for 5 years.

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

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

3. SYSTEM CHECK

CONEKT fall-arrest systems should 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 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.

4. CERTIFICATE OF CONFORMITY

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

CER

ATTESTATION DE CONFORMITÉ

POTELETS DYNAMIQUES

afaq ISO 9001 Qualité AFNOR CERTIFICATION

apave Certification

L'Echelle Européenne atteste que les interfaces basculantes P300 et P500, ont une résistance supérieure à 2000daN. Le potelet P500 se couche à environ 600 daN, le potelet P300 se couche à environ 1000daN. Une fois couché, sa résistance est supérieure à 2200 daN.

Ces interfaces sont donc suffisamment dimensionnées pour recevoir les systèmes antichute Conekt EN 795 : 2012, qu'ils soient de type A, C ou D.

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

Fait à Saint Jean de Védas,
le 03/11/2023

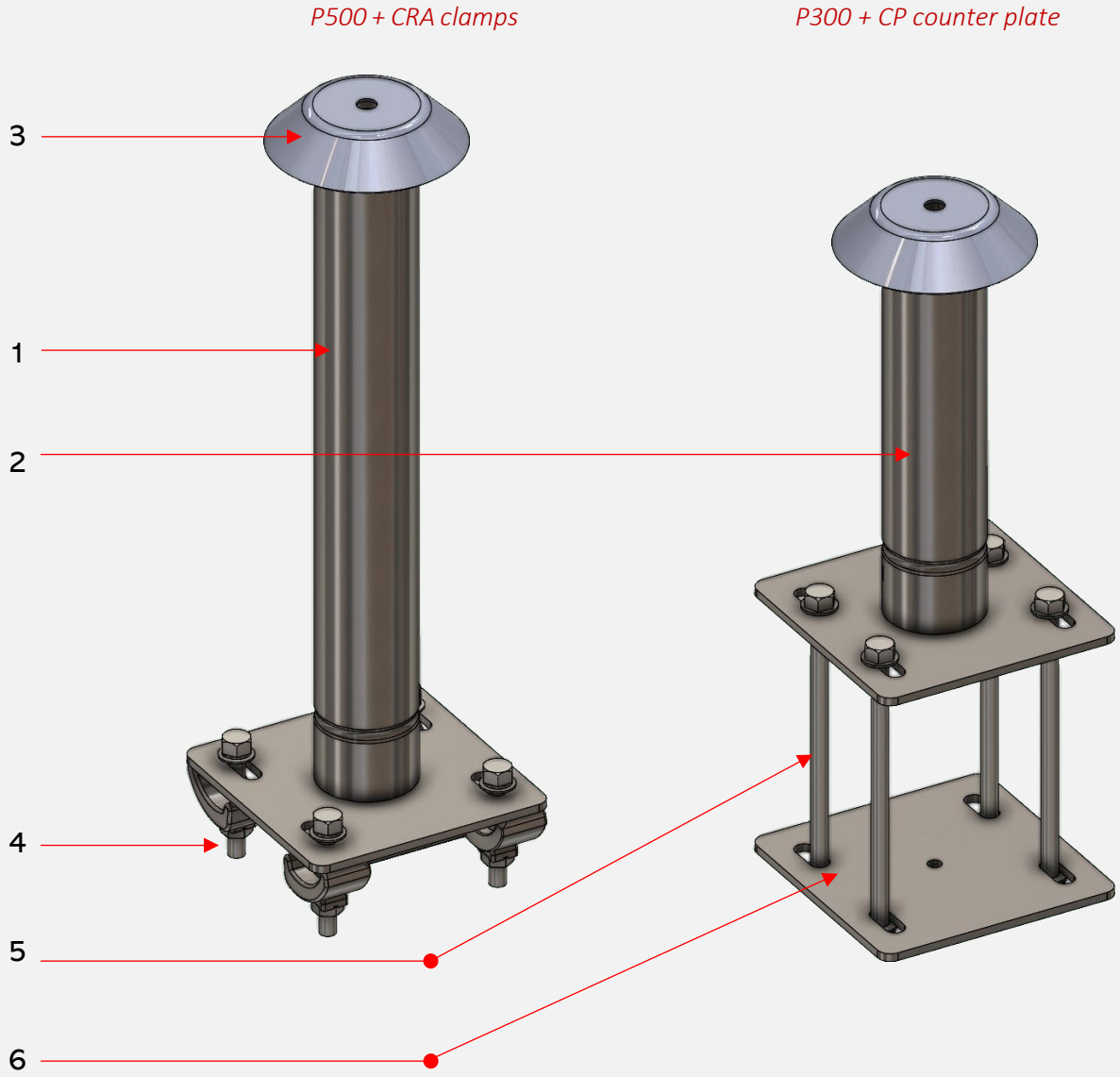
Benjamin LE GOAS
Ingénieur Développement

Benjamin LE GOAS

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
Tél : 0033 (0)4 67 27 36 55 - Fax : 0033 (0)4 67 07 50 05
www.echelle-europeenne.com - email : info@echelle-europeenne.com

POSTS P300/P500

5. PRESENTATION OF COMPONENTS



Product codes of components

1 - P500 - Rigid post, Height 500mm (including collar)

2 - P300 - Rigid post, Height300mm (including collar)

3 - COLR - Round collar for post

4 – CRA – Double clamps

5 - TF300 - Set of 300 mm threaded rods

6 - P101 - Counter plate for rigid post

6. INSTALLATION OF INTERFACES

Standard interfaces can be installed either:

- By clamping with CONEKT double clamps
- By clamping using a counter plate and threaded rods or long M12 screws.
- By direct fastening to a substrate using chemical or mechanical sealing compounds, or by drilling and tapping into a metal substrate.

In all cases, the fasteners must be in stainless steel and have an M12 thread diameter. An anti-loosening system must be installed (Nylstop nut, grower washer, etc.).

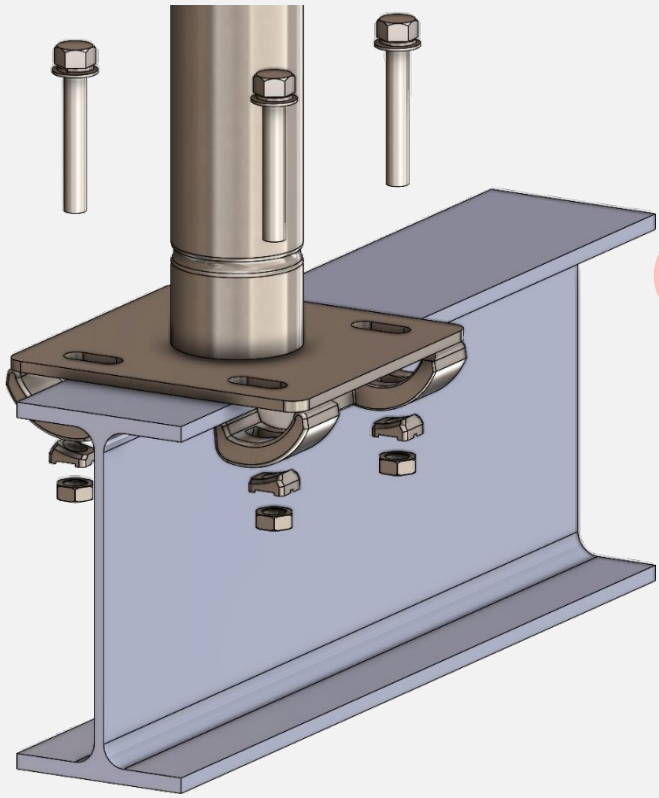
a. Standard clamping

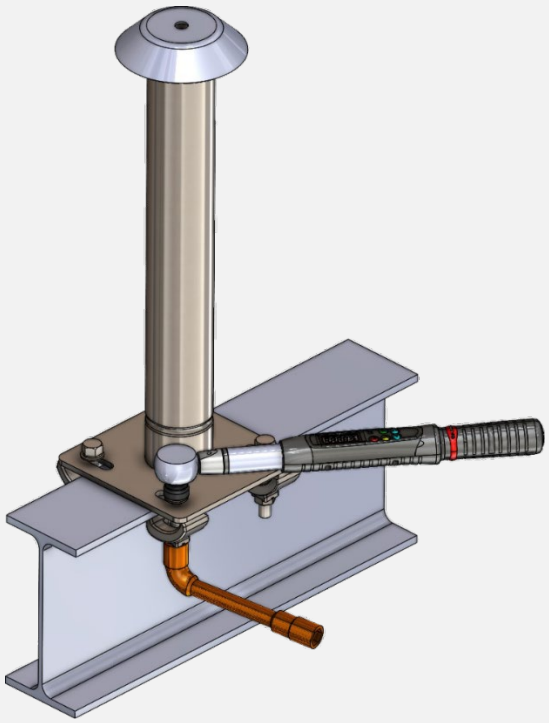
The CONEKT range features a double-clamp system with a grip capacity ranging from 3 mm to 25 mm.

The P300 and P500 rigid posts can be clamped on supports from 60 to 110 mm wide.

ANCREE anchorage posts can be clamped on supports from ... to .... wide.

Standard clamping is done by simply fastening and tightening the clamps on the flange of the metal beam:





Tighten fasteners to a torque of 50 Nm. Slip resistance is directly dependent on the tightening torque.

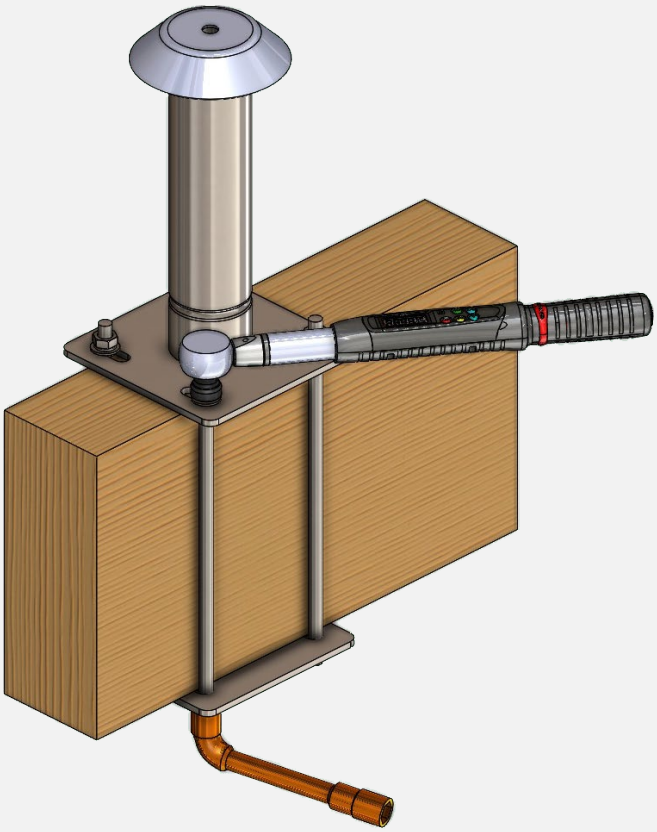
POSTS P300/P500

b. Clamping using counter plates

The P300 and P500 rigid posts can be clamped on supports from 60 to 110 mm wide.

ANCREE anchorage posts can be clamped on supports from ... to .... wide.

The counter plate clamping is done by simply mounting and tightening the clamps on the flange of the metal beam or timber purlin:



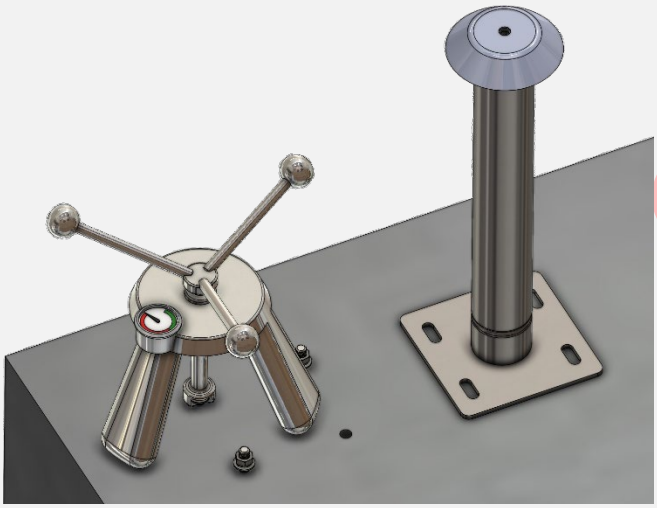
Tighten fasteners to a torque of 50 Nm. Slip resistance is directly dependent on the tightening torque.

c. Chemical seals

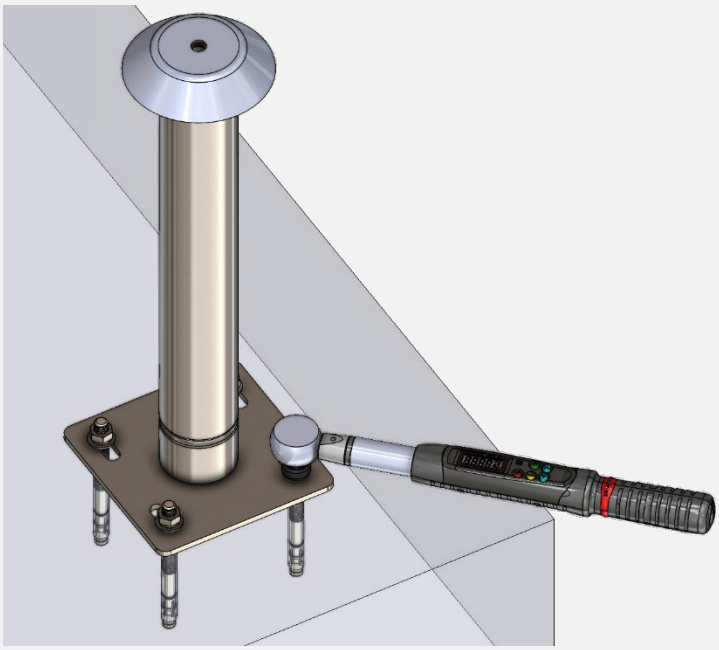
Rigid posts from the CONEKT range are fixed with M12 stainless steel fasteners, using either a mechanical expansion system or chemical seals.

It is very important to carefully follow the fastener manufacturer's installation instructions.

An extractometer test must be performed at 500 daN for 15 seconds to confirm the strength of the fixing parts:



Once tested, fasteners must be tightened to the correct torque. A torque of 35Nm is sufficient for this type of mounting:



7. 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.

The installation documentation should contain at least the following information:

– the address and location of the installation;

– the name and address of the installation company;

– the name of the person in charge of the installation;

– the product identification (manufacturer of the anchor device, type, model/article;

– fastening device (manufacturer, product, permissible tensile and transverse forces);

– the schematic installation plan, of the roof for example, 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 for 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;

– is according-to-plan;

– was fixed to the specified substrate;

– 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.

POSTS P300/P500

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

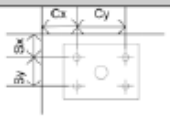
Fixations/Goujons

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 :
- Marteau
- Rotatif
- Clé dynamométrique

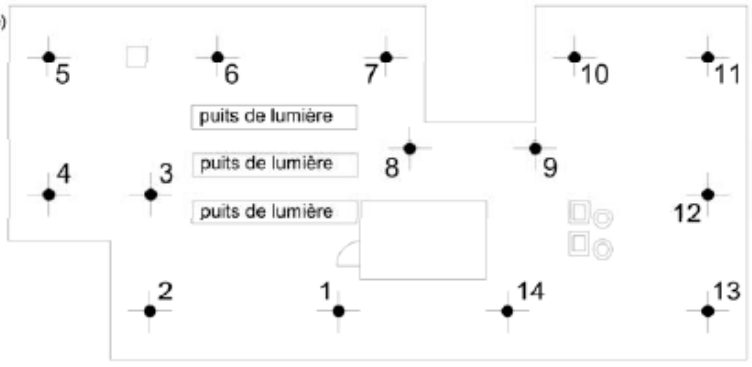
Dispositif d'essai :
- Nettoyage du trou foré
- Dispositif d'essai des fixations

Choc Système
- oui / non
- Humide / Sec
- oui / 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 :

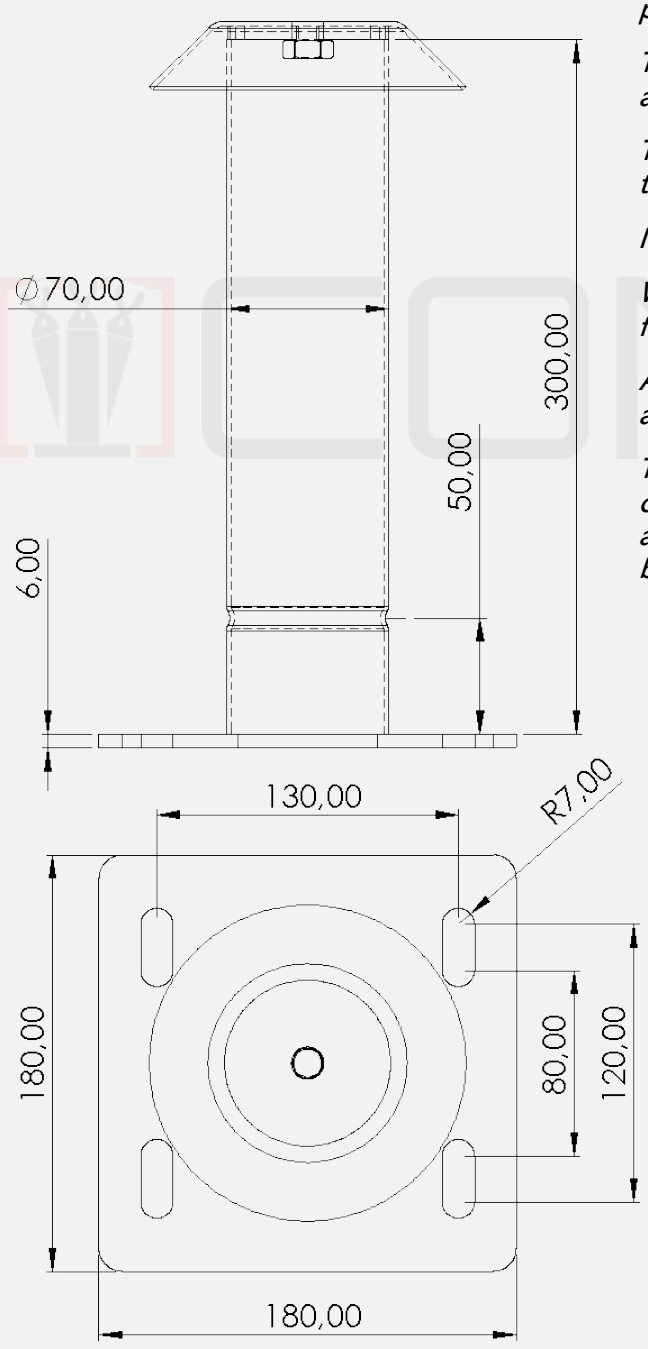
Date : **Signature:**

POSTS P300/P500

8. PRODUCT DATA SHEETS

RIGID POST

Ref no. : A0014079 - P300



Description: P300 and P500 interfaces are used to anchor fall-arrest devices directly to the building's structural framework (concrete slab, steel beam, structural timber purlin or glued laminated timber).

The P300 rigid post is a 300 mm-high anchoring post with a Ø70mm round cross-section and a sealing collar.

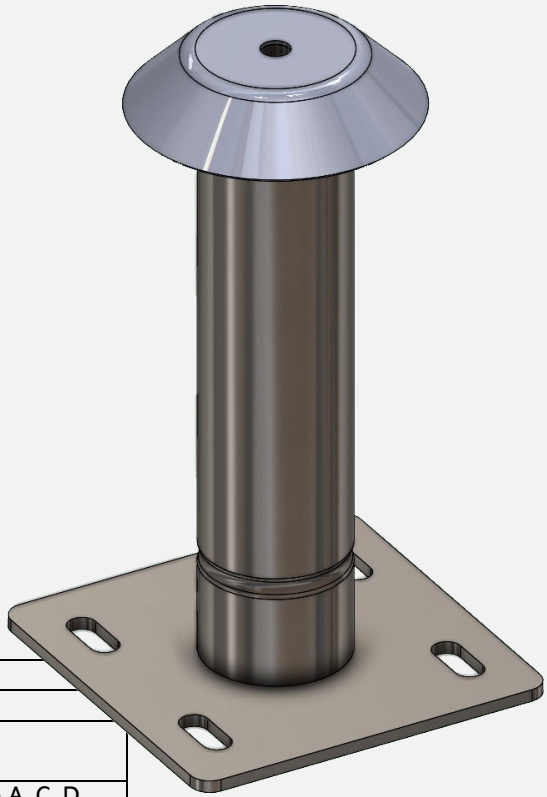
The collar is delivered unassembled. To be assembled with the supplied M12 screws + washers.

It can be clamped on a support up to 110 mm wide.

When fastening on concrete, M12 stainless steel chemical fasteners type HVU HAS are recommended.

A groove at the bottom of the tube prevents deformation and protects the fragile welded area.

This interface has been specifically designed to be compatible with CONEKT rail and cable lifelines, as well as all NF EN 795 type A, C, or D anchors from the CONEKT brand.

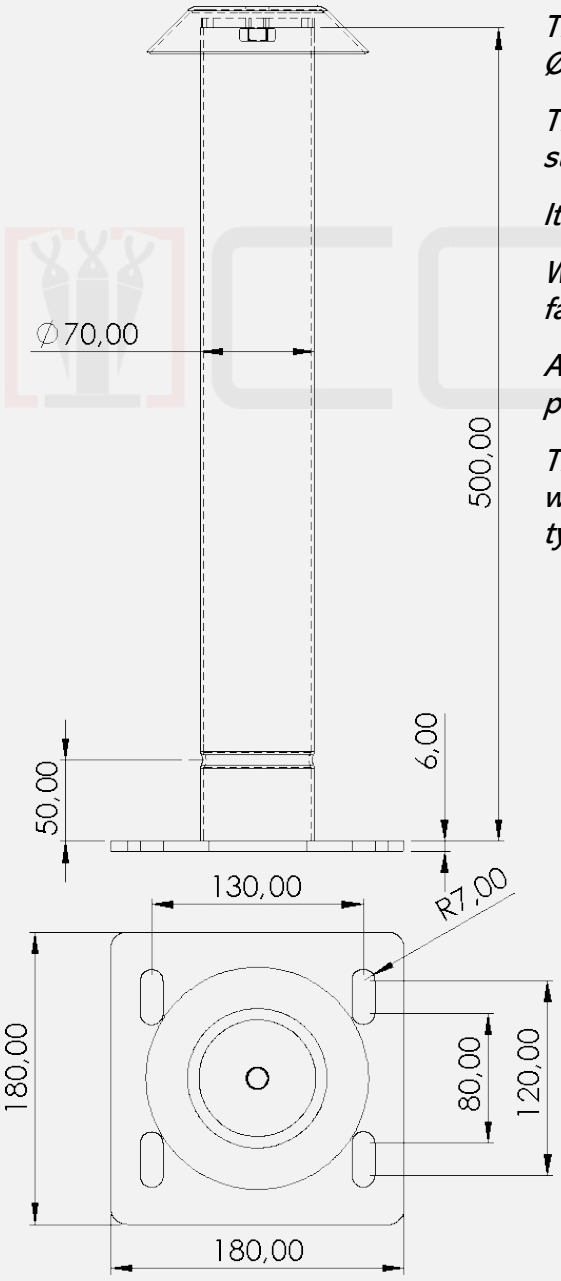


Composition of the P300 post:	S235 STEEL + Hot-dip galvanizing
Composition:	Aluminum collar
Post strength:	Strength before deformation 1000 daN Breaking strength > 2200 daN:
Approved standards:	EN 795:2012 and TS16415:2013 type A, C, D
Weight:	2.7 kg

POSTS P300/P500

RIGID POST

Ref no. : A0014080 - P500



Description: P300 and P500 interfaces are used to anchor fall-arrest devices directly to the building's structural framework (concrete slab, steel beam, structural timber purlin or glued laminated timber).

The P500 rigid post is a 500 mm-high anchoring post with a Ø 70 mm round cross-section and a sealing collar.

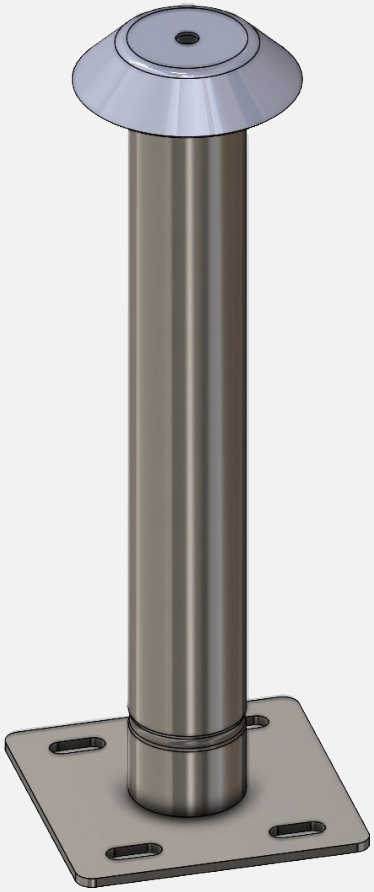
The collar is delivered unassembled. To be assembled with the supplied M12 screws + washers.

It can be clamped on a support up to 110 mm wide.

When fastening on concrete, M12 stainless steel chemical fasteners type HVU HAS are recommended.

A groove at the bottom of the tube prevents deformation and protects the fragile welded area.

This interface has been specifically designed to be compatible with CONEKT rail and cable lifelines, as well as all NF EN 795 type A, C, or D anchors from the CONEKT brand.

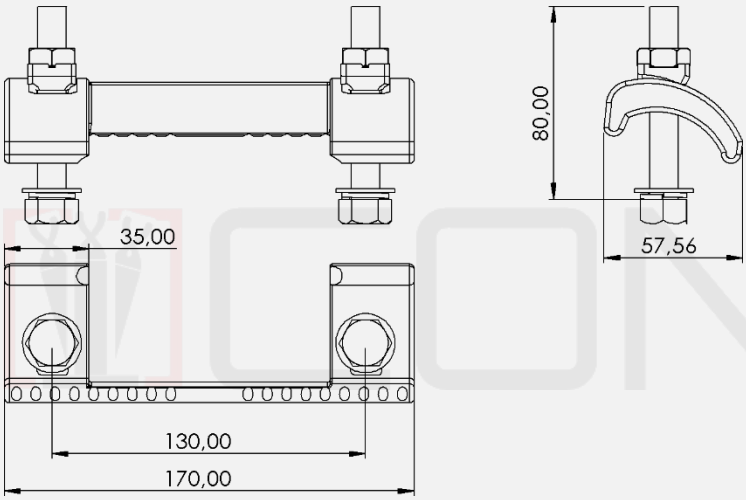


Composition of the P300 post:	S235 STEEL + Hot-dip galvanizing
Composition:	Aluminum collar
Post strength:	Strength before deformation 600 daN Breaking strength > 2200 daN:
Approved standards:	EN 795:2012 and TS16415:2013 type A, C, D
Weight:	3.3 kg

POSTS P300/P500

DOUBLE CLAMP

Ref no. : A0014108 - CRA



Composition:	E24 steel
Finish:	Hot-dip galvanizing.
Strength with clamp support:	Tensile strength: >2000 daN Slip resistance (per pair): >2000 daN
Weight:	750g

Description: The CONEKT double clamp can be used directly on standard or custom-made rigid posts.

It has also been designed to be mounted in combination with clamp supports.

It can be used to grip the flanges of metal beams from 3 mm to 25 mm thick.