INNOTECH® LOCK-11 /-13

INSTRUCTIONS FOR INSTALLATION AND USE

ENGLISH

ACHTUNG: **DEUTSCH**
Die Montage und die Verwendung der Sicherungseinrichtung ist erst zulässig, nachdem der Monteur und der Anwender die Original Aufbau– und Verwendungsanleitung in der jeweiligen Landessprache gelesen haben.

ATTENTION: **ENGLISH**
Assembling and using of the safety product is only allowed after the assembler and user read the original installation and application instruction in his national language.

Attention!: **FRANÇAIS**
Le montage et l'utilisation du dispositif de sécurité ne sont autorisés qu'après lecture par le monteur et par l'utilisateur de la notice d'origine de montage et d'utilisation dans la langue du pays concerné.

Attenzione: **ITALIANO**
Il montaggio e l'uso del dispositivo di sicurezza è ammesso soltanto dopo che il montatore e l'utente hanno letto le istruzioni per l'installazione e l'uso nella rispettiva lingua nazionale.

ATENCIÓN: **ESPAÑOL**
No está permitido montar ni usar el dispositivo de protección antes de que el montador y el usuario hayan leído las instrucciones de montaje y uso originales en la lengua del respectivo país.

Atenção: **PORTUGUES**
A montagem e o emprego do mecanismo de proteção somente serão permitidos, após o montador e o usuário terem lido as instruções de uso originais, no respectivo idioma do país, sobre a montagem e o emprego do mesmo.

Attentie: **NEDERLANDS**
De montage en het gebruik van de veiligheidsinrichting is pas toegestaan, nadat de monteur en de gebruiker de originele montage- en gebruikershandleiding in de desbetreffende taal gelezen hebben.

Figyelem: **MAGYAR**
A biztonsági berendezés felszerelése és használata csak az után megengedett, miután a szerelést végző és a használó személyek a nemzeti nyelvükre lefordított, eredeti használati utasítást elolvasták és megértették.

Pozor! **SLOVENSKY**
Montaža in uporaba varnostnih naprav je dovoljena šele takrat, ko sta monter in uporabnik prebrala originalna navodila za montažo in uporabo v konkretnem jeziku.

POZOR: **ČEŠTINA**
Montáž a používání zabezpečovacího zařízení jsou povoleny až poté, co si pracovníci provádějící montáž a uživatelé přečetli v příslušném jazyce originální návod k montáži a používání.

DİKKAT!: **TÜRKÇE**
Güvenlik tertibatının montajına ve kullanımına, ancak montaj teknisyeni ve kullanıcı, orijinal kurulum ve kullanma talimatını kendi ülke dilinde okuduktan sonra, izin verilir.

Obs! : **NORSK**
Monteringen og anvendelsen av sikkerhetsinnretningene er gyldige først etter at montøren og brukeren har lest den originale oppbygnings- og bruksanvisningen i det tilsvarende landets språk.

O B S : **SVENSKA**
Säkerhetsanordningen får inte monteras och användas förrän montören och användaren har läst igenom konstruktionsbeskrivningen och bruksanvisningen i original på resp lands språk.

Huomio: **SUOMI**
Turvalaitteiden asennus ja käyttö on sallittu vasta, kun asentaja ja käyttäjä ovat lukeneet alkuperäisen asennus- ja käyttöohjeen omalla kielellään.

GIV AGT: **DANSK**
Montagen og brugen af sikkerhedsudstyret er først tilladt, efter at montøren og brugeren har læst den originale vejledning i samling og brug på det pågældende lands sprog.

UWAGA: **POLSKI**
Montaż i użytkowanie urządzenia zabezpieczającego dozwolone jest wtedy, gdy monter i użytkownik przeczytają oryginalną instrukcję montażu i użytkowania w swoim języku.

INNOTECH® LOCK-11 /-13

INSTRUCTIONS FOR INSTALLATION AND USE

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INNOTECH® LOCK-11 /-13

INSTRUCTIONS FOR INSTALLATION AND USE

SAFETY INSTRUCTIONS

- Read the instruction manual completely.
- These instructions for installation and use must be stored after installation and made available to the user by the building owner. Carefully complete the acceptance log, the test sheet, and the test log.
- INNOTECH LOCK should only be installed by specialised/competent experts familiar with the safety system and in compliance with the current state of the art.
- You must be familiar with these instructions, as well as with the local safety regulations as a prerequisite for installing and using the system. You must also be physically and mentally fit and trained in the use of PPE (Personal Protective Equipment).
- Medical conditions (cardiovascular problems, intake of medicines, alcohol) can affect the safety of the user when working in high places.
- Comply with the respective accident prevention regulations when installing/using the INNOTECH LOCK anchorage device.
- A plan must be available that specifies rescue procedures for all possible emergencies.
- Before starting the work, you must ensure that no objects can fall to the ground from the work site. The area below the work site (sidewalk, etc.) must be kept clear.
- The fitters must ensure that the ground is suited for fixing the attachment device. If in doubt consult a structural engineer.
- If uncertainties arise during installation it is imperative that you contact the manufacturer.
- Document the professional fastening of the restraint system to the building with photos of each fitting situation.
- Ensure that stainless steel does not come into contact with swarf or steel tools, as this may lead to corrosion.
- You should plan, install and use the anchorage point in such a way that none can fall over the edge if the personal protective equipment is used properly.
- At the access to the roof safety system, document the positions of the anchorage devices by means of diagrams.
- The minimum free space necessary between the edge and the ground is calculated as follows:
  Manufacturer's specification of the personal safety equipment used including cable deflection + body height + 1 m safety margin.

INNOTECH® LOCK-11 /-13

INSTRUCTIONS FOR INSTALLATION AND USE

SAFETY INSTRUCTIONS

- Fastening on the INNOTECH LOCK always occurs through the eyebolt with a carabiner and must be used with personal protective equipment in accordance with EN 361 (safety harness) and EN 363 (fall arrest system).
- For horizontal use, only those fasteners may be used that are suited for this purpose and have been tested for the respective edges (sharp edges, sheet with trapezoidal corrugations, steel girder, concrete, etc.).
- There is a hazard when combining individual elements of the specified units, since the safe function of one of the elements can be impaired through the combination. Follow the specific instructions provided with each element!)
- Before use, you must visually inspect the entire restraint system for obvious defects (e.g. loose screws, deformation, wear, corrosion, etc.).
  If in doubt relative to safe function of the anchorage point it must be taken out of service and sent to the manufacturer for inspection.
- At least once a year, an expert must check the complete safety device including the personal protective equipment used. The inspection by an expert must be documented in the provided test log.
- The INNOTECH LOCK was developed for personal safety and may not be used for other purposes. Never attach undefined loads to the restraint system.
- Do not make any changes to the approved anchorage device.
- If you provide the restraint system to external contractors, their familiarity with the instructions for installation and use must be confirmed in writing.

+ The concrete must be in perfect condition and without noticeable flaws.
+ If possible do not work above the anchorage point.
  (See the instruction manual provided with the rope)
+ After a fall, stop using the product and have it checked by the manufacturer.
+ Do not allow any contact between the anchorage point and chemicals or other aggressive substances. Contact the manufacturer if in doubt.

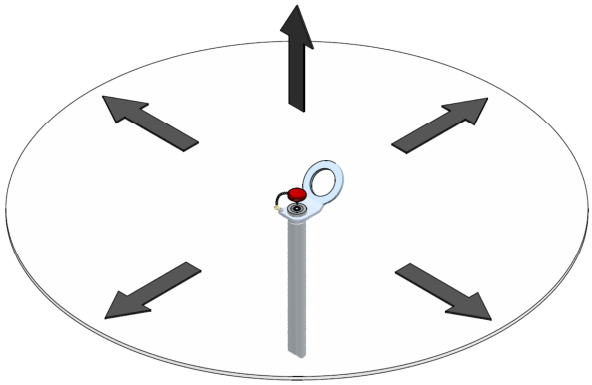
INNOTECH® LOCK-11 /-13

APPLICATION

As anchorage point for **2 people** (including 1 person for first-aid administration) with personal protective equipment EN 361 (safety harness) and EN 363 (fall arrest system).
The INNOTECH LOCK-11 receptacle sleeve is permanently mounted to the structure and when not in use it is covered with a protective cap. If necessary the removable INNOTECH LOCK-13 anchorage point can be locked into the receptacle sleeve.

LOAD DIRECTIONS

When installing / using the fall prevention system,
pay attention to the approved load directions!



STANDARDS

INNOTECH LOCK has been tested and certified in accordance with EN 795:2012 typ B.
The test was additionally executed both statically and dynamically on the original substrate concrete and steel.

SIGNS AND MARKINGS

- Type designation:	INNOTECH LOCK
- Number(s) of the applicable standard(s):	EN 795:2012 typ B
- Name or logo of the manufacturer/reseller:	INNOTECH
- Manufacturer's serial number and year of manufacture:	JJJJ-....
- Maximum number of users including 1 person for first-aid support:	2 people
- Signs stating that the instructions specified in the manual must be followed:	

THE NOTIFIED AUTHORITY PARTICIPATING IN THE TYPE TEST:
TÜV- Austria Services GmbH, Deutschstr. 10, 1230 Vienna
The type test was performed in accordance with EN 795:2012

The quality assurance system with monitoring as per § 15 and § 16 PSA-SV
is subject to the control of the authorised inspecting body,
DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany

INNOTECH® LOCK-11 /-13

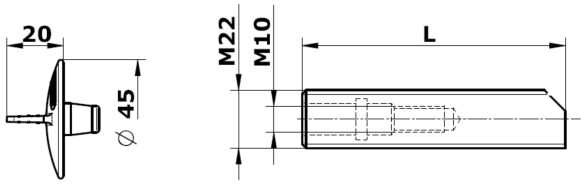
DEVELOPMENT and SALES
INNO*TECH Arbeitsschutz GmbH* A-4656 Kirchham, Laizing 10
w w w . i n n o t e c h.at

MATERIAL
Receptacle sleeve:
INNOTECH LOCK-11 is made of stainless steel, quality 1.4301

Socket pin (anchorage point):
INNOTECH LOCK-13 is made of stainless steel, quality 1.4305 / aluminium

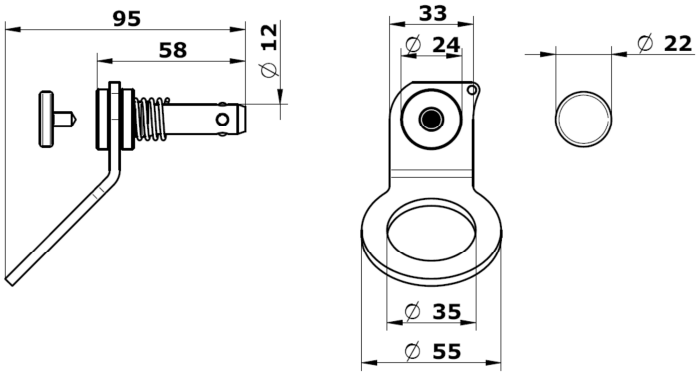
DIMENSIONS INNOTECH LOCK-11
Diameter: M22
Standard lengths: L= 100 mm, 150 mm, 200 mm, 300 mm, 400 mm, 500 mm
Special lengths on request!

[mm]



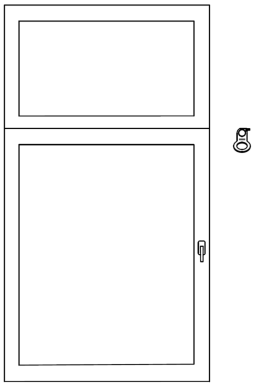
DIMENSIONS INNOTECH LOCK-13

[mm]



POSITIONING SUGGESTIONS INNOTECH LOCK 11 /-13:

1.



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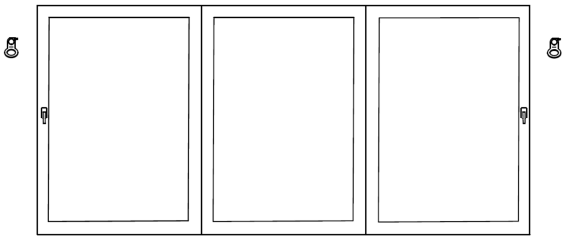

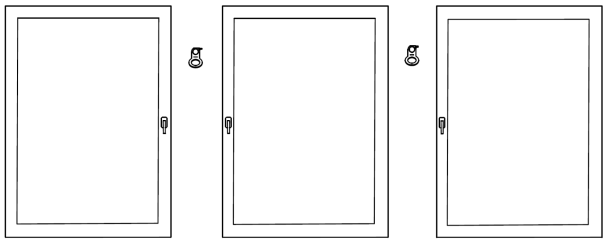

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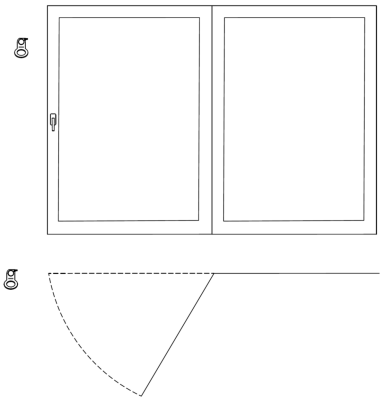
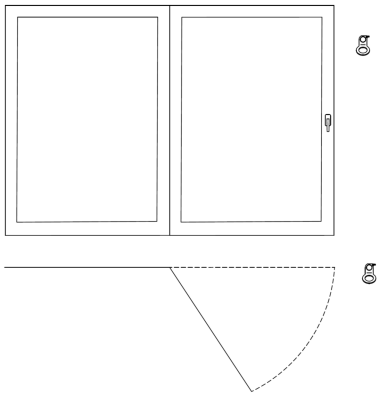




INSTALLATION POSSIBILITIES INNOTECH LOCK-11:

The basic prerequisite is a static load-bearing construction.
If in doubt, consult a structural engineer.
Attention: the single anchorage point can be plastically deformed!

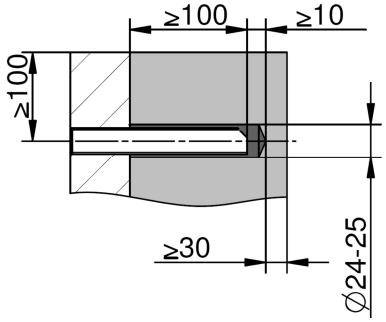
FASTENING IN CONCRETE

Concrete quality at least C20/25.

ATTENTION only fasten receptacle sleeves in structural concrete!
Do not fasten in screed, levelling concrete, blinding concrete, etc.

ADHESIVE:
FISCHER FIS SB 390 S or HILTI HY 200 or at least equivalent.
Strictly follow the original instructions provided by the adhesive manufacturer!

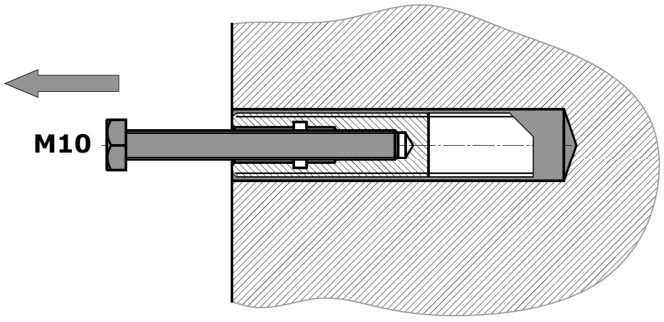
- Bore in **structural concrete:**
  Diameter: Ø 24 mm, max. Ø 25 mm
  Depth: min. 110 mm (see Fig. on the right)
- Clean bore by blowing it out and brushing it.
- Bond in INNOTECH LOCK-11 in accordance with the instructions for installation and use provided by the adhesive manufacturer.
- Check for firm seat.



If in doubt about the substrate or the fastening, strictly ensure that pull-out tests are executed to ensure the strength of the substructure!

- **Pull-out test:**

  The receptacle sleeves are fitted with M10 female thread for this purpose.
  Screw the M10 hex bolt at least 15 mm into the female thread of the INNOTECH LOCK-11 receptacle sleeve.
  The bolt can now be used for the pull-out test.
  Test forces in accordance with installation recommendation
  EN 795.
  (Strictly comply with the instructions for installation and use
  for the test device used)

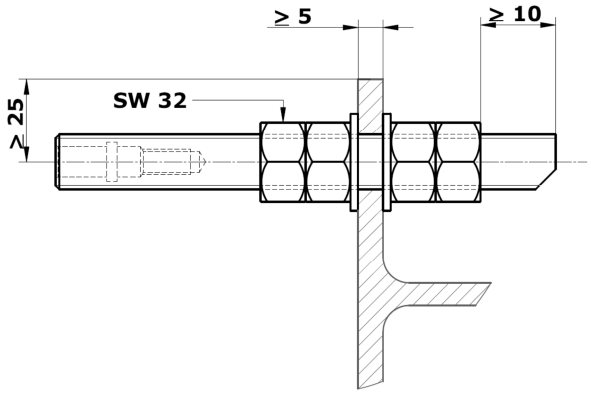


- **If the test was performed successfully additional receptacle sleeves can be installed and tested.**
  The pull-out tests must be documented in the dowel log.

Caution:
Do not use the anchorage device until after the adhesive has cured
(see the instructions provided with the adhesive).

FASTENING ON THE STEEL GIRDER

[mm]



- Minimum steel cross section 5 mm
- Tighten counter nuts.
- Check for firm seat.

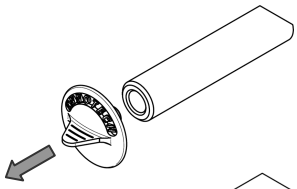
You must contact the manufacturer if there are deviating conditions.

FASTENING INNOTECH LOCK-13 (ANCHORAGE POINT)

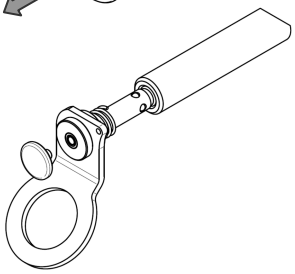
in the previously-installed INNOTECH LOCK-11 receptacle sleeve

Prior to use comply with the safety instructions!

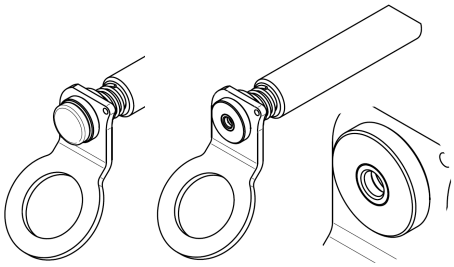
- Take the protective cap off of the receptacle sleeve.



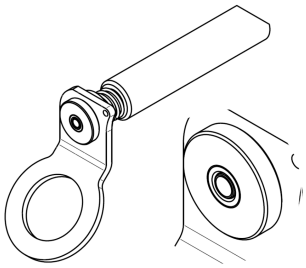
- Press the unlocking tab on the anchorage point into the centre of the LOCK-13 unit and keep it depressed.



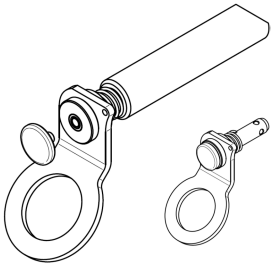
- Slide the LOCK-13 into the receptacle sleeve until it hits the spring, and then release the unlock tab.



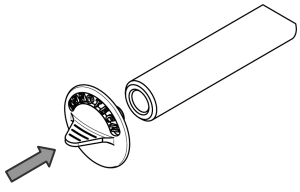
- Now press the anchorage point deeper into the receptacle sleeve until an audible "click" is produced. The mark in the centre must now be visible (flush). Check the anchorage device for firm seat.



- To detach the anchorage device, hold the anchorage point tightly and simultaneously press the unlock tab into the marked point in the centre. The LOCK-13 will unlock and you can remove it.



- If the LOCK-11 will not be used cover it with the protective cap.



ACCEPTANCE PROTOCOL

EAP-LOCK

ORDER NUMBER:

PROJECT:

CLIENT: Specialist: ☎

Company address:

CONTRACTOR: Specialist: ☎

Company address:

INSTALLATION:

Specialist: ☎

Company address:

FASTENER DOCUMENTATION / PHOTO DOCUMENTATION

PRODUCT: ☐ items INNOTECH EAP LOCK-11-_____
(State length! e.g.: EAP LOCK-11-300)

INSTALLATION SUBSTRATE:_____
(e.g.: solid concrete, concrete quality: C20/25; steel girders: cross-section / clamping thickness, etc.)

Date:	Location:	Drill bit Ø:	Setting depth: in structural concrete Clamping thickness: Steel girders	Fastening type: adhesive (e.g.: Fischer FIS V360S) / countered as per product description	Photos: (storage location)
		mm	mm		

If in doubt about the substrate or the fastening, it must be ensured that pull-out tests are executed to ensure the strength of the substructure!

PULL-OUT TEST required? YES ☐ _____ (Quantity / test force / duration) NO ☐

PRODUCT: ☐ items INNOTECH EAP LOCK-11-_____
(State length! e.g.: EAP LOCK-11-300)

INSTALLATION SUBSTRATE:_____
(e.g.: solid concrete, concrete quality: C20/25; steel girders: cross-section / clamping thickness, etc.)

Date:	Location:	Drill bit Ø:	Setting depth: in structural concrete Clamping thickness: Steel girders	Fastening type: adhesive (e.g.: Fischer FIS V360S) / countered as per product description	Photos: (storage location)
		mm	mm		

If in doubt about the substrate or the fastening, it must be ensured that pull-out tests are executed to ensure the strength of the substructure!

PULL-OUT TEST required? YES ☐ _____ (Quantity / test force / duration) NO ☐

PRODUCT: ☐ items INNOTECH EAP LOCK-11-_____
(State length! e.g.: EAP LOCK-11-300)

INSTALLATION SUBSTRATE:_____
(e.g.: solid concrete, concrete quality: C20/25; steel girders: cross-section / clamping thickness, etc.)

Date:	Location:	Drill bit Ø:	Setting depth: in structural concrete Clamping thickness: Steel girders	Fastening type: adhesive (e.g.: Fischer FIS V360S) / countered as per product description	Photos: (storage location)
		mm	mm		

If in doubt about the substrate or the fastening, it must be ensured that pull-out tests are executed to ensure the strength of the substructure!

PULL-OUT TEST required? YES ☐ _____ (Quantity / test force / duration) NO ☐

PRODUCT: ☐ items INNOTECH EAP LOCK-11-_____
(State length! e.g.: EAP LOCK-11-300)

INSTALLATION SUBSTRATE:_____
(e.g.: solid concrete, concrete quality: C20/25; steel girders: cross-section / clamping thickness, etc.)

Date:	Location:	Drill bit Ø:	Setting depth: in structural concrete Clamping thickness: Steel girders	Fastening type: adhesive (e.g.: Fischer FIS V360S) / countered as per product description	Photos: (storage location)
		mm	mm		

If in doubt about the substrate or the fastening, it must be ensured that pull-out tests are executed to ensure the strength of the substructure!

PULL-OUT TEST required? YES ☐ _____ (Quantity / test force / duration) NO ☐

The installation company who signs warrants proper workmanship (edge spacing, inspection of the substrate, proper cleaning of bores, compliance with curing times and processing temperature, compliance with the dowel manufacturer's guidelines, etc.)

The client accepts the services provided by the contractor. The instructions for installation and use, fastener documentation, photo documentation and test sheets have been handed over to the client (building owner) and have been made available to the user. When accessing the restraint system, the building owner must document the positions of the anchorage devices by means of diagrams (e.g. top view of the roof).
The expert fitter familiar with the safety system confirms that the installation work has been executed properly, in accordance with the state of the art, and in accordance with the manufacturer's instructions for installation and use. The safety specifications for reliability are confirmed by the installation company.

Handover of:
(e.g.: EAP LOCK-13, EAP LOCK-12-R, personal protective equipment PPE, fall arrest devices FAD, storage cabinet etc.)

☐ items EAP LOCK-13 Year of construction / serial numbers:_____

☐ items EAP LOCK-12-_____ ☐ items _____ ☐ items _____

Comments: _____

Name: _____ _____
Client Installer of EAP LOCK-11

_____ _____
Date, company stamp, signature Date, company stamp, signature

INSTRUCTIONS FOR THIS SAFETY SYSTEM

The building owner must affix this notice in a conspicuous location near the access to the system!

This system must be used in accordance with the state of the art and with the instructions for installation and use.

The storage location for the instructions for installation and use, test logs, etc. is:

- Overview diagram showing the position of the anchorage devices:

Draw in the areas where there is a break-through hazard (e.g. light domes or / and roof lights)!

The maximum limit values of the anchorage devices are provided in the respective instructions for installation and use or on the ratings plate for your system.

If there is strain caused by fall, or if in doubt, the anchorage device must be taken out of service immediately and sent to the manufacturer, or to a specialised workshop for inspection and repair.
The same applies if there is damage to the anchorage equipment.

TEST PROTOCOL

EAP – LOCK (1/2)

ORDER NUMBER: _____

PROJECT: _____

PRODUCT: ☐ items EAP LOCK-11 / EAP LOCK-12

PRODUCT: ☐ items EAP LOCK-13 **Year of manufacture / serial numbers:** _____

ANNUAL SYSTEM INSPECTION EXECUTED ON: _____

CLIENT: Specialist: ☎

Company address:

CONTRACTOR: Specialist: ☎

Company address:

INSPECTION POINTS: ☑ **checked and in order!**	**DEFECTS DETECTED:** (Description of defects/ measures)
DOCUMENTATION:	
☐ Instructions for installation and use	
☐ Acceptance log/ Fastener documentation/ Photo documentation	
EAP LOCK-13:	
☐ no deformation	
☐ The attachment eye can rotate	
☐ no corrosion	
☐ Spring function	
☐ Unlocking tab (incl. attachment)	
☐ Functional test	
EAP LOCK-12:	
☐ firmly seated	
☐ available for every LOCK-11	

TEST PROTOCOL

EAP – LOCK (2/2)

INSPECTION POINTS: ☑ **checked and in order!**	**DEFECTS DETECTED:** (Description of defects/ measures)
EAP LOCK-11:	
☐ no damage	
☐ no deformation	
☐ no corrosion	
☐ No fouling	
☐ no corrosion	
☐ when installing by countering: threaded joints secured	
☐ firmly seated	
☐ LOCK-13 locked perfectly in every LOCK-11	
☐ If in doubt about the substrate or the fastening, it must be ensured that pull-out tests are executed to ensure the strength of the substructure! PULL-OUT TEST required? YES ☐ _____ (Quantity / test force / duration) NO ☐	

Acceptance result: The securing system corresponds to the specifications in the manufacturer's instructions for installation and use and to the state of the art. Technical safety reliability is confirmed.

Comments: _____

Name:

_____
Client

_____
Inspection: contractor (expert, who is familiar with the safety system)

_____
Date, company stamp, signature

_____
Date, company stamp, signature