

INNOTECH® SPAR-11



INSTRUCTIONS FOR INSTALLATION AND USE



ENGLISH

ACHTUNG:

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:

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!:

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:

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:

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:

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:

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:

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!

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:

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

DİKKAT!:

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

Obs! :

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 :

Säkerhetsanordningen får inte monteras och användas förrän montören och användaren har läst igenom konstruktionsbeskrivningen och bruksanvisningen i original på resp lands språk.

Huomio:

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

GIV AGT:

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:

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

DEUTSCH

ENGLISH

FRANÇAIS

ITALIANO

ESPAÑOL

PORTUGUES

NEDERLANDS

MAGYAR

SLOVENSKY

ČESKY

TÜRKÇE

NORSK

SVENSKA

SUOMI

DANSK

POLSKI

INNOTECH[®] SPAR-11



INSTRUCTIONS FOR INSTALLATION AND USE



SAFETY INSTRUCTIONS

- INNOTECH SPAR should only be installed by specialised/competent experts familiar with the roof 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.
- Adhere to the respective accident prevention regulations (e.g. working on roofs) when installing/using the attachment device INNOTECH-SPAR.
- 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.
- The roof covering must be properly sealed in accordance with applicable guidelines.
- Document the professional fastening of the fall arrest system to the building with photos of each fitting situation.
- Ensure that stainless steel does not come into any contact with swarf or steel tools, as this may lead to corrosion.
- All stainless steel bolts must be greased with a suitable lubricant before installation.
- You should plan, install and use the anchorage point in such a way that no one can fall over the edge if the personal protective equipment is used properly. (See planning documents at www.innotech-safety.eu)
- At the access to the roof safety system you must document the positions of the anchorage devices by means of diagrams (e.g. view of the roof from above).
- The minimum free space necessary between the edge and the ground is calculated as follows:
Manufacturer's specification of the personal protective equipment used including deflection of the cable + body height + 1 m safety margin.

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SAFETY INSTRUCTIONS

- Fastening on the INNOTECH-SPAR 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.
 - Before use, you must visually check the complete fall arrest system for obvious defects (e.g. loose screws, deformations, abrasion, corrosion, defective roof sealing, etc.). If there are any doubts concerning the safe function of the restraint system, it must be inspected by an expert (written documentation).
 - 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.
 - After a fall and the resulting strain, you must stop using the restraint system and have it checked by an expert (component parts, fastening to the substrate, etc.).
 - The INNOTECH-SPAR was developed for personal safety and may not be used for other purposes. Never attach undefined loads to the restraint system.
 - Do not use safety systems if wind speeds exceed normal parameters.
 - Do not make any changes to the enabled anchorage device.
 - If used on sloping roofs, roof avalanches (ice, snow) must be avoided by means of suitable devices to intercept snow.
 - If you provide the restraint system to external contractors, the instructions for installation and use must be handed over in writing.
- + INNOTECH-SPAR is not suitable for installation on flat roofs. (thread sealant)

INNOTECH® SPAR-11

APPLICATION

As anchorage point for **3 people** (including 1 person for first-aid administration) with personal protective equipment EN 361 (safety harness) and EN 363 (fall arrest system).

STANDARDS

INNOTECH-SPAR has been tested and certified in accordance with EN 795 A.

SIGNS AND MARKINGS

- Type designation:
- Number(s) of the applicable standard(s):
- Name or logo of the manufacturer/reseller:
- Manufacturer's serial number and year of manufacture:
- Signs stating that the instructions specified in the manual must be followed:

INNOTECH-SPAR-11
EN 795:2012
INNOTECH
xxxx / 20xx



MATERIAL

INNOTECH-SPAR is made of stainless steel, quality 1.4301.

DIMENSIONS

Diameter: M16 (Ø 16 mm)
Standard lengths: 50, 125, 200, 300, 400, 500 mm, special lengths on request!

The notified authority participating in the type test:
DEKRA EXAM GmbH, Dinnendahlstrasse 9, D-44809 Bochum

SALES AND DEVELOPMENT

INNOTECH® Arbeitsschutz GmbH
www.innotech.at

A-4656 Kirchham, Laizing 10



INSTALLATION POSSIBILITIES:

The basic prerequisite is a static, carrying substructure.

If in doubt consult a structural engineer.

INNOTECH-SPAR is not suitable for installation on flat roofs. (thread sealant)

Attention: the single anchorage point can be plastically deformed!

FASTENING IN CONCRETE:

ADHESIVE:

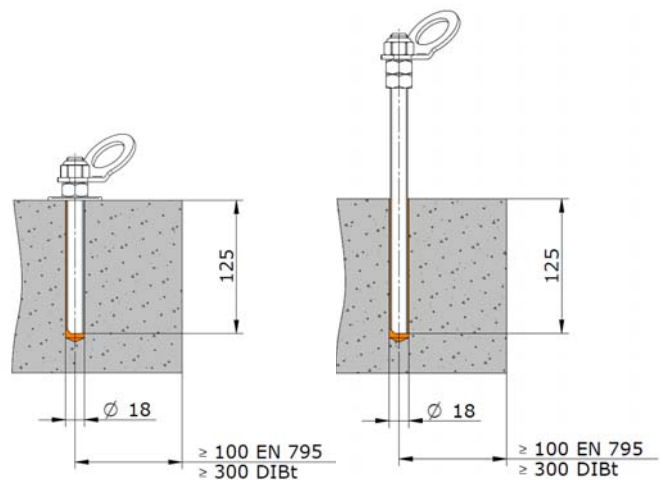
HILTI HY 200, FISCHER FIS SB 390 S

or at least equivalent.

Strictly follow the original instructions provided by the adhesive manufacturer!

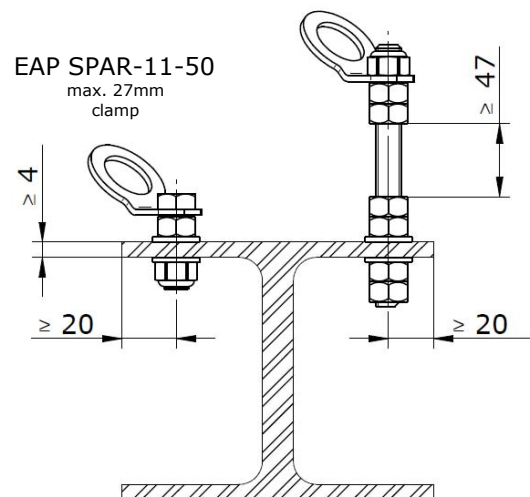
- Drill a hole **Ø 18 mm** in **structural concrete** 125 mm in depth.
Concrete quality at least C 20/25.
- Clean bore by blowing it out and brushing it.
- Bond in INNOTECH SPAR 125 mm deep, in accordance with the instructions for installation and use provided by the adhesive manufacturer.
- Check for firm seat.
- Use the self-locking nut or lock nuts to adjust the eye bolt in such a way that it can rotate around its own axis after installation. (see eye bolt installation (anchorage point))

EAP SPAR-11-xxx



FASTENING ON THE STEEL GIRDER

- Minimum steel cross section 4 mm
- Tighten lock nuts. Check for firm seat.
- Use the self-locking nut or lock nuts to adjust the eye bolt in such a way that it can rotate around its own axis after installation. (see eye bolt installation (anchorage point))
- After countering the nuts, check the anchorage point for firm seat.

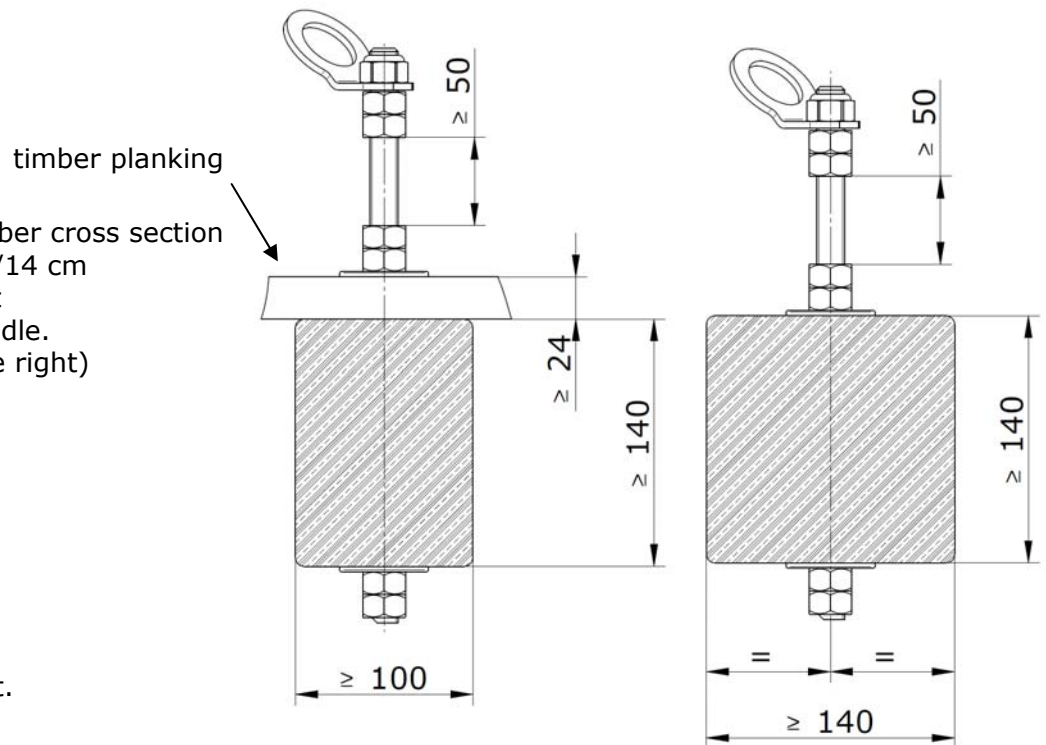


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FASTENING IN WOOD

Timber cross section at least 10/14 cm (timber planking) or 14/14 cm.

- With minimum timber cross section of 10/14 cm or 14/14 cm strictly ensure that you drill in the middle. (See figures on the right)

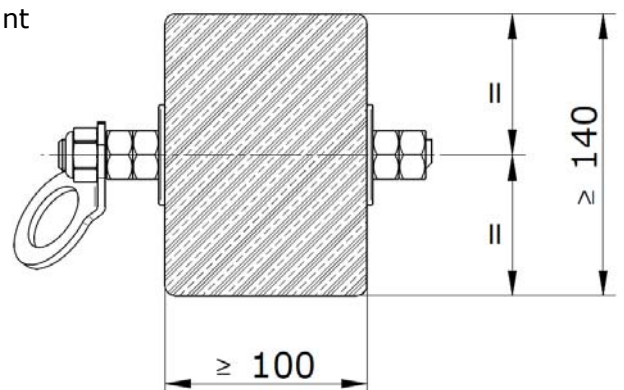


- Tighten lock nuts.

- Check for firm seat.

- Use the self-locking nut or lock nuts to adjust the eye bolt in such a way that it can rotate around its own axis after installation. (see eye bolt installation (anchorage point))

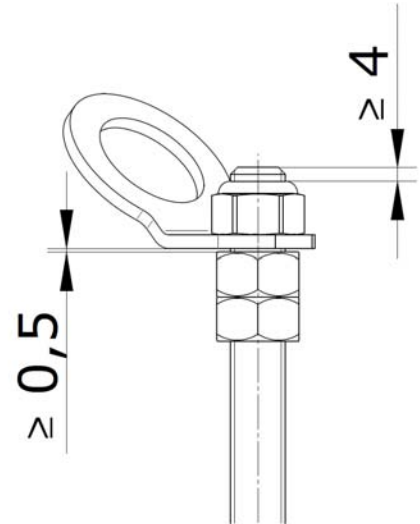
- After countering the nuts, check the anchorage point for firm seat.



INNOTECH® SPAR-11

INSTALLING THE EYE BOLT (ANCHORAGE POINT)

- Bond SPAR if necessary.
- Screw both M 16 lock nuts onto the thread and counter them against each other.
- Use M16 lock nut to fasten the eye bolt (anchorage point).
- After fastening loosen the lock nut a $\frac{1}{4}$ (quarter) turn; the anchorage point will now rotate 360° around its own axis. Check: the lock nut should free approximately 4 thread turns of the stud bolt.



ACCEPTANCE LOG

PROJECT:			
PRODUCT: <input type="checkbox"/> units _____		MANUFACTURING NO.:	
	CLIENT:	CONTRACTOR:	INSTALLATION COMPANY:
SPECIALIST:			
COMPANY ADDRESS:			

- Client accepts the performances of the contractor.
- The instructions for installation and use, dowel log and photo documentation have been transferred to the client (building owner) and have been made available to the user. When accessing the roof securing system, you must document the positions of the attachment 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.**

Comments: _____

DOWEL LOG / PHOTO DOCUMENTATION

Date:	Location:	Dowel type:	Setting depth:	Drill bit Ø:	Tightening torque:	Photos: (File name)

The undersigned installation company warrants that the dowels have been properly processed in accordance with the dowel manufacturer's guidelines. (Proper cleaning of bores, compliance with curing times and processing temperature, edge spacing of the dowels, inspection of the substrate, etc.)

Substrate (concrete quality C20/25), rafter dimension, etc.): _____

Installation of the support structure by: _____

Installation of cable system by: _____

Client: _____
NAME

Fitter: _____
NAME

DATE, SIGNATURE

DATE, SIGNATURE



INSTRUCTIONS FOR THE EXISTING 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 in accordance with the instructions for installation and use.

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

- Overview diagram showing the position of the anchorage devices:

(Draw in the areas where there is a break-through hazard!)

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

INSPECTION LOG I

PROJECT:

PRODUCT: <input type="checkbox"/> units _____	MANUFACTURING NO.:
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ANNUAL SYSTEM INSPECTION EXECUTED ON:
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INSPECTION POINTS: <input checked="" type="checkbox"/> checked and in order!	DEFECTS DETECTED: <small>(Description of defect / measures)</small>
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DOCUMENTATION:

<input type="checkbox"/> Instructions for installation and use	
<input type="checkbox"/> Acceptance log	
<input type="checkbox"/> Dowel log	
<input type="checkbox"/> Photo documentation	

PPE (personal protective equipment against falling): Inspection in accordance with manufacturer's specifications

<input type="checkbox"/> Expiration date	
<input type="checkbox"/> Annual inspection performed	
<input type="checkbox"/> Not checked (no authorization)	

VISIBLE PARTS OF THE ANCHORAGE DEVICE
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<input type="checkbox"/> No deformation	
<input type="checkbox"/> The attachment eye can rotate	
<input type="checkbox"/> No corrosion	
<input type="checkbox"/> Threaded joints secured	
<input type="checkbox"/> Firm seat	
<input type="checkbox"/>	

ROOF SEALING:

<input type="checkbox"/> No damage	
<input type="checkbox"/> No corrosion	
<input type="checkbox"/>	

HORIZONTAL LIFELINE SYSTEM:

Attention: Strictly ensure that the supplemental TEST LOG II (copy template in the installation instructions / user copy)!

Acceptance result:

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

Comments: _____

Expert who is familiar with the safety system: NAME: _____

SIGNATURE: _____