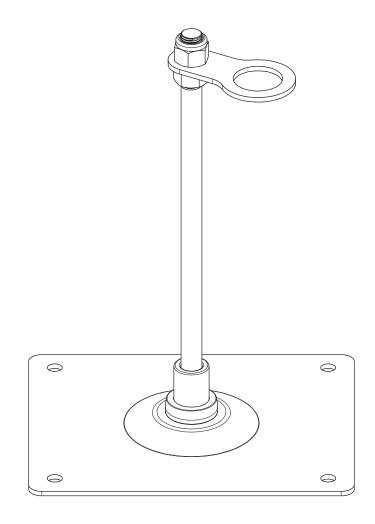




Read the product description carefully



GREEN. INTERNATIONAL



COMBI MODULAR

ENGLISH

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ΕN **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.

FR **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.

IT **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.

ES 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.

PT **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.

NL **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.

HU **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.

SL **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.

CZ **POZOR**



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

DİKKAT TR



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

NO **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.

SV **OBS**



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

FΙ **HUOMIO**

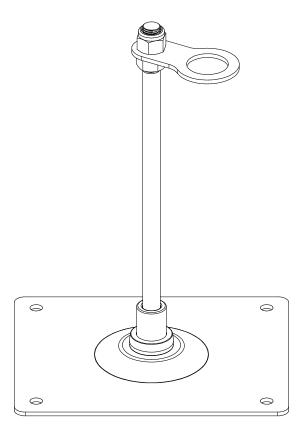


Turvalaitteiden asennus ja käyttö on sallittu vasta, kun asentaja ja käyttäjä ovat lukeneet alkuperäisen asennus- ja käyttöohjeen omalla kielellään.

DA **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.



PROJECT DATA

SYSTEM DESCRIPTION

ASSEMBLY COMPANY



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1. General safety instructions

- The attachment to the GREEN anchorage device always happens with a carabiner to the anchorage eye and must be done with a
- harness in accordance with EN 361 and a force-absorbing fall absorber with lanyard (EN 355 and EN 354).
- Attention: For horizontal application, only fasteners suited for this purpose and for the corresponding edge designs (sharp edges,
- trapezoid sheet, steel beam, concrete, etc.) may be used.
- The combination of individual elements of the equipment referred to can cause risks, because the safe functioning of an element
- can be impaired. (Note the respective operating instructions!)
- The entire safety system must be checked before use for obvious defects by visual inspection (e.g. loose screw connections, deformations,
- abrasion, corrosion, defective roof sealing, etc.).
- If there are doubts as to the safety of the security system, it must be inspected by an expert (written documentation).
- The entire safety product must at least once be subjected to an annual inspection by an expert. The inspection by an expert must
- be documented in writing.
- After a fall event, the further use of the entire system is to be avoided and must be checked by an expert (component parts, fastening
- to the ground, etc.).
- The GREEN anchorage devices were developed for personal safety and may not be used for other purposes. Never attach undefined
- loads to the safety systems.
- Do not make any changes to the approved anchorage devices.
- For sloping roofs, roof avalanches (ice, snow) must be prevented by suitable devices to intercept snow.
- If you provide the safety system to external contractors, the instructions for assembly and use are to be provided in writing.
- The anchorage device may only be installed by persons with a proper knowledge of the roof safety system.
- The system may only be installed or used by persons who are familiar with these operating instructions, as well as with the
- local safety regulations. They must be physically or mentally healthy and trained on PPE (personal protective equipment).
- Health restrictions (cardiac and circulatory problems, medication intake, alcohol) can affect the safety of the user when working
- at height.
- For mounting / use, the respective accident prevention regulations (e.g.: work on roofs) must be observed.
- There must be a plan covering rescue measures in all possible emergencies.
- Before commencing work, measures must be taken to ensure that no objects can fall down from the workstation. The area
- under the workstation (footpath, etc.) is to be kept free.
- · The installers must ensure that the subfloor is suitable for the attachment of the anchorage device. In case of doubt, a structural
- engineer must be consulted.
- The anchorage device on the roof is designed for loading in all directions parallel to the mounting surface or perpendicular to
- the supports.
- If any uncertainties occur during assembly, please contact the manufacturer.
- The sealing of the roofing has to be carried out according to the relevant guidelines.
- The proper fastening of the safety system on the structure must be documented in logs and by photos of the respective
- installation situation.
- Stainless steel must not come into contact with grinding dust or steel tools. This can lead to corrosion.
- All stainless steel bolts must be greased with a suitable lubricant before assembly.
- The anchorage point should be planned, installed and used so that falling over the edge is not possible with appropriate use
- of personal protective equipment.
- When accessing the roof securing system, the positions of the anchorage devices (e.g.: sketch of roof top view) are to be
- documented in design plans.
- The minimum clearance from the falling edge to the ground is calculated as:
- Manufacturer specification of the personal protective equipment to be used, incl. rope deflection
- incl. rope deflection
- + body size
- + 1 m safety margin.
- Attention: snow clearance at the facility require due to snow pressure load!



2. Technical Data

Height: 300 mm, 400 mm, 500 mm, 600 mm, 700 mm

Diameter: Ø 16 mm

Base plate: 210 x 250 mm

Bores: 4 x 11.5 mm

Material: 1.4301

2.1. Standards / Approval of the anchorage device

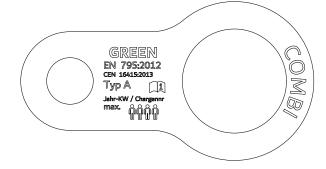
COMBI MODULAR was tested and certified according to EN 795:2012-A + CEN/TS 16415:2013 The test was carried out statically and dynamically on the respective original substrate.

COMBI MODULAR is suitable as a substructure for fastening components of a horizontal rope safety system as an intermediate rope support DIN EN 795:2012 Type C.

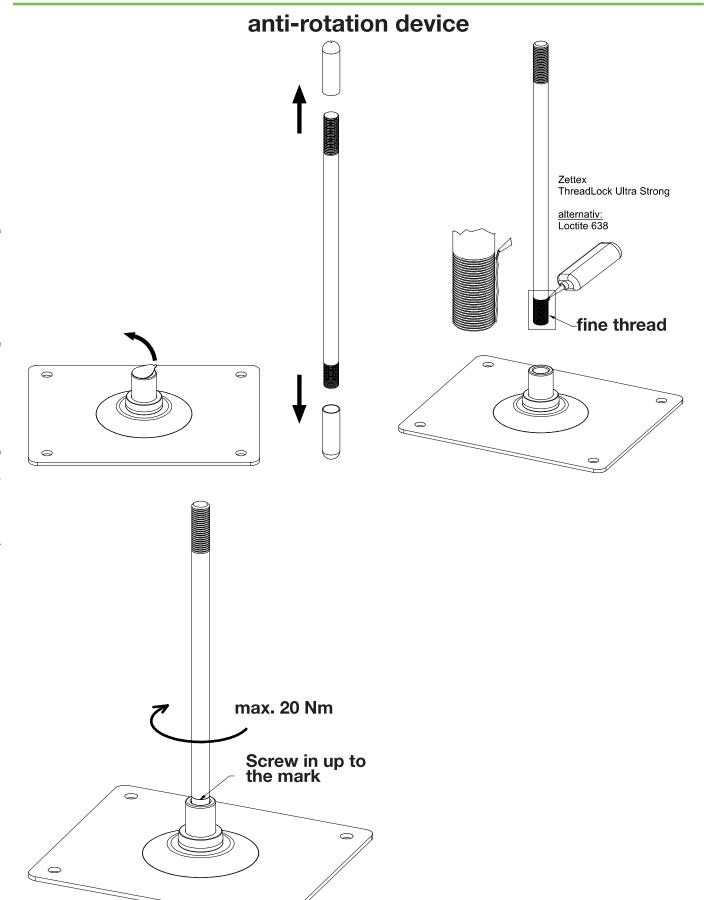
COMBI MODULAR is not suitable for rope-supported work (EN 795). Marking of the lifting eye (EN 365)

- Manufacturer
- Product name
- Norm
- Read instructions for use
- Year of manufacture
- Max. number of persons

Torsion Protection









3. Mounting on concrete ceiling

- The concrete must be part of the basic static structure. In case of doubt, this should be checked by a structural engineer.
- Only the fixing material supplied by GREEN International Absturzsicherungs GmbH may be used. Individual parts must not be replaced.
- The installation and operating instructions of GREEN International Absturzsicherungs GmbH apply exclusively.

• Furthermore, the strength and installation specifications of the fastening manufacturers apply.

Fastening material: 4 pcs. Bolt anchor 10/10

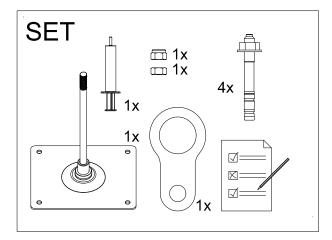
Load capacity of the anchorage device: max. 4 users per anchorage device

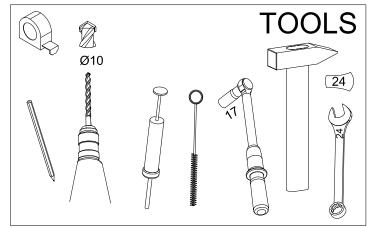
Substrate: Concrete quality min. C20/25 DIN EN 206-1 cracked and non-cracked Concrete

thickness min. 120 mm Tightening torque 45 Nm

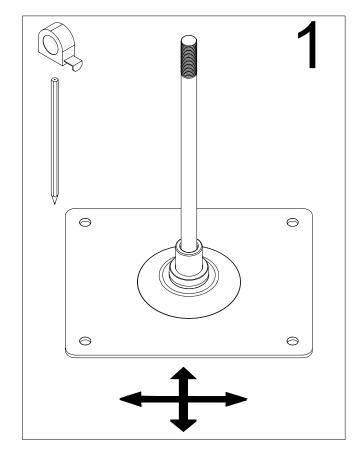
Drill hole depth: 75 mm incl. base plate, drill hole diameter: 10 mm In case of a wrong drilling, new drill

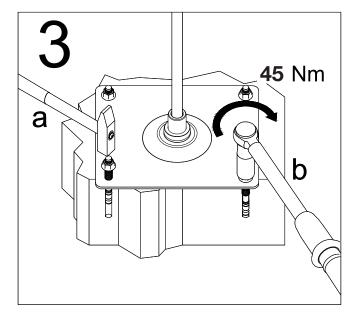
holes must be arranged at a distance of at least 2 x depth of the wrong drilling.

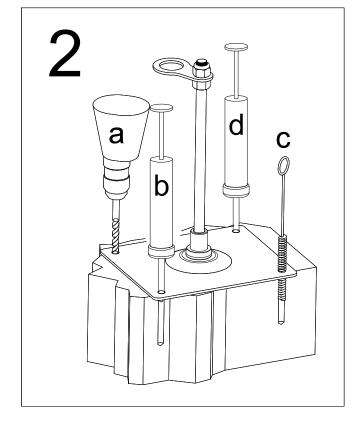


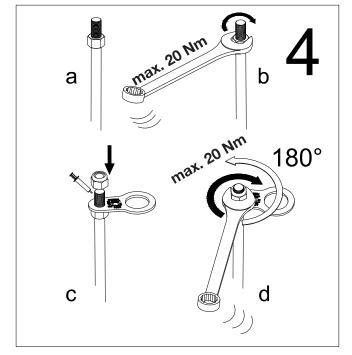


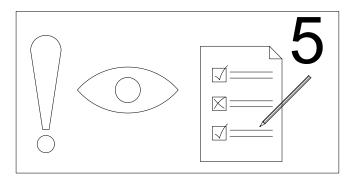














4. Mounting on solid wood ceiling

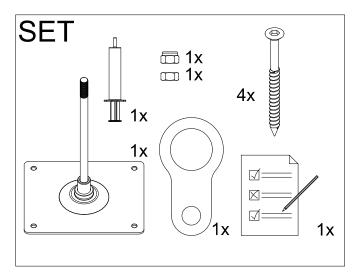
- The solid wood ceiling must be part of the basic static construction. In case of doubt, this should be checked by a structural engineer.
- Only the fastening material supplied by GREEN International Absturzsicherungs GmbH may be used. Individual parts must not be replaced.
- The installation and operating instructions of GREEN International Absturzsicherungs GmbH apply exclusively.

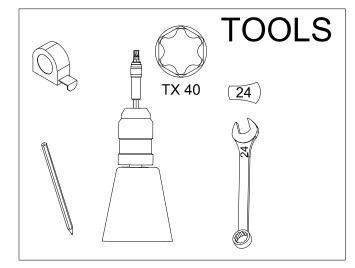
Fixing material:

Load capacity of the anchorage device: Substrate:

4 pcs. Wood construction screws 8.0 x 100 mm as per fixing set max. 4 users per anchoring device

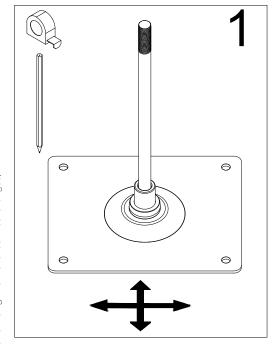
The minimum component thickness of 100 mm must be observed. Before fixing, the load-bearing capacity of the anchoring base must be determined: Load-bearing timber construction in accordance with DIN 1052. Quality of construction timber: min. C 24 or cf.

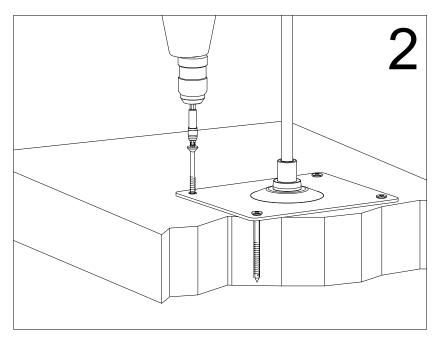


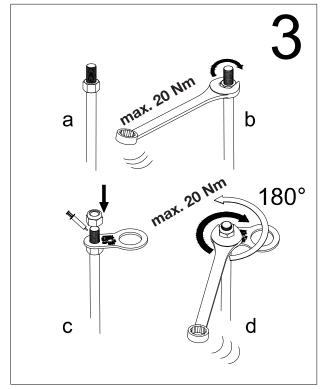


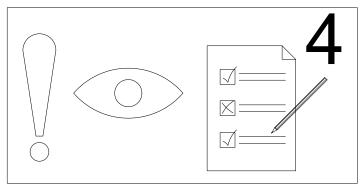
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5. Installation on hollow concrete planks / prestressed concrete

- The hollow plank ceiling must be part of the basic static construction. In case of doubt, this should be checked by a structural engineer.
- Only the fastening material supplied by GREEN International Absturzsicherungs GmbH may be used. Individual parts must not be replaced.
- The installation and operating instructions of GREEN International Absturzsicherungs GmbH apply exclusively.
- Furthermore, the strength and installation specifications of the fastening manufacturers apply.

Fixing material: 4 pcs. Concrete screws 8 x 60/5

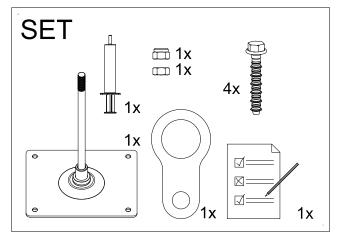
Loading capacity of the anchorage device: max. 4 users per anchor device

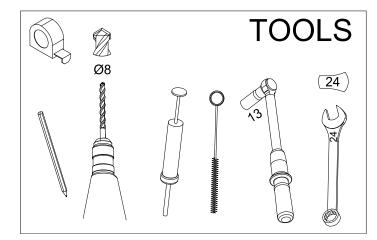
Substrate: Hollow concrete floor slab / prestressed concrete slab

Concrete quality min. C 30/37 to max. C50/60 25 mm mirror

thickness of the hollow plank cross-section.

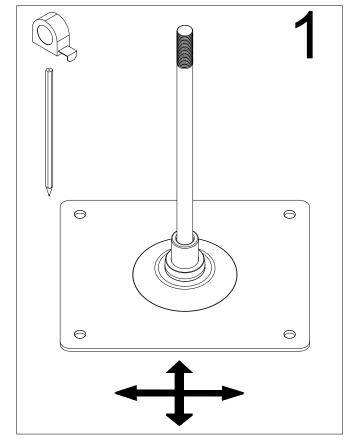
Drilling depth: min. 65 mm with drill bit - Ø 8 mm. Tightening torque; min. 40 Nm

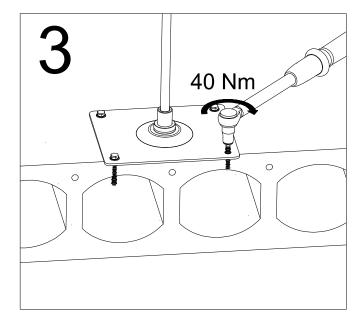


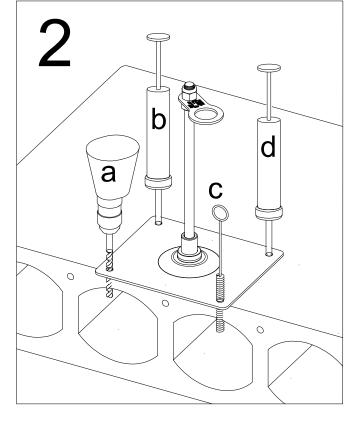


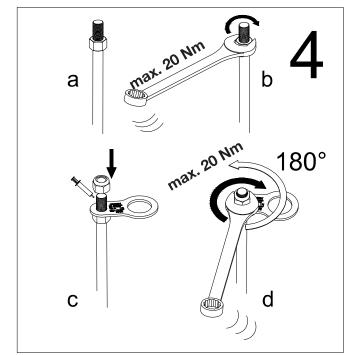
Hollow plank ceiling:

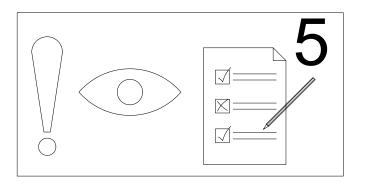














6. Mounting on trapezoidal profile

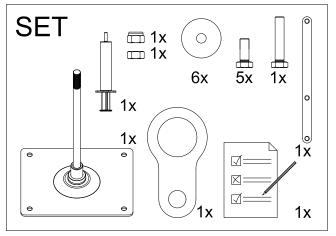
- The trapezoidal profile must be part of the basic static construction. If in doubt, this should be checked by a structural engineer.
- Only the fastening material supplied by GREEN International Absturzsicherungs GmbH may be used. Individual parts must not be replaced.
- The installation and operating instructions of GREEN International Absturzsicherungs GmbH apply exclusively.

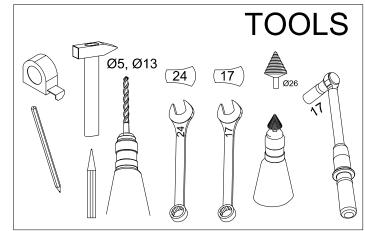
Material: sheet steel, at least 0.72 mm. Other sheet thicknesses on request.

Fastening material: 2 pcs. Brackets, 6 pcs. screws M10 + washers as per fixing set

Load capacity of the anchorage device: max. 4 users per anchorage device

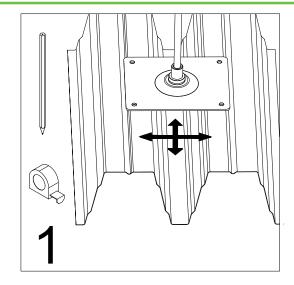
Tightening torque: 60 Nm

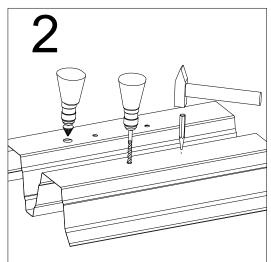


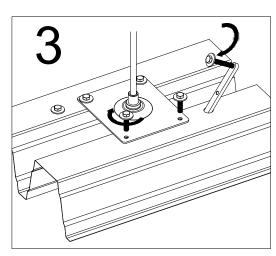


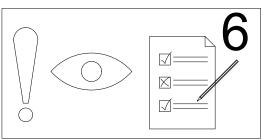


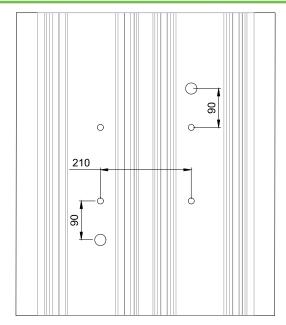
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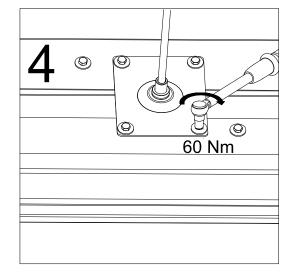


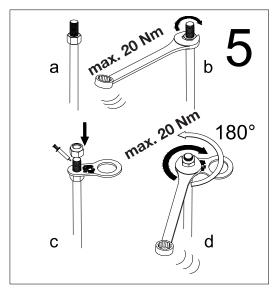














7. General notes

7.1. Personal Protective Equipment

Check harnesses, shock absorbers and carabiner hooks before each use for proper condition (damage). Do not use the anchorage device if there are doubts about its safe condition. In such case, the anchorage device must be checked by an expert or the manufacturer immediately and replaced if necessary. (See 8.4) Any anchorage device that experienced a fall case must be taken out of service and replaced by a qualified person or the manufacturer. The instructions for use of other products in conjunction with this product have to be considered.

7.2. Using the system

When using the anchorage device, it must be ensured that the slings are not exposed to fire or other heat sources. This leads to the immediate destruction of the slings. Furthermore, scraping or slipping over sharp edges should be avoided.

Run a visual inspection before using the system. Check the system for signs of damage, breakage, excessive wear or damaged holders.

The anchorage device must not be used if the personal protective equipment (PPE) cannot be fully connected or is damaged (e.g. corrosion, deformation).

7.3. Note the planning fundamentals

When used as a backup while leading, the distance between the anchorage points must be less than the distance from the roof edge.

7.4. Maintenance / inspections

The anchorage point must be subjected to an annual inspection by an expert person authorized by the manufacturer in strict accordance with the manufacturer's instructions. The controls are important since the safety of the user depends on the effectiveness and durability of the equipment.

8. Notified delivery point of the anchorage device



TÜV AUSTRIA SERVICES GMBH Deutschstraße 10 1230 Wien



9. Fastening element "COMBI MODULAR"

For roof access (system access), this notice by the owner shall be placed and be clearly visible:

NOTES ON THE EXISTING ROOF SAFETY SYSTEM

The use is restricted to adhering to the assembly and use instructions. The use is restricted to adhering to the assembly and use instructions.

Manufacturer and system name:	GREEN Fastener element "Combi Modular"	
Date of last audit:		

The minimum clearance from the roof edge to the ground is calculated as:

Manufacturer specification of the personal protective equipment to be used, incl. rope deflection

- + body size
- + 1 m safety margin.



Signature of client

Place, date

Signature of contractor / installer



11. Notes

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