

Duraklick

A brand of SOLTOP Energie GmbH



Single Anchor Point (SAP) for Fall Protection

Installation Manual

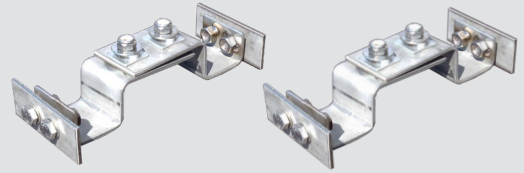
Certified according
DIN EN 795:2012 Typ A & E
DIN CEN/TS 16415:2017



The Duraklick Single Anchor Point consists of the following components:



Duraklick Single Anchor Point with Attachment Eye. Foldable to avoid obstruction when not in use.



Mounting Points



5 mm Wire Rope and Cable Clamps

For installation, you will need the **SOLTOP Installation Kit**:

- ❶ Drilling template for floor rail for the single anchor points
- ❷ 2 × 17 mm ratchet wrenches
- ❸ 2 × 19 mm ratchet wrenches
- ❹ 11.5 mm metal drill bit
- ❺ 8 mm metal drill bit
- ❻ Measuring rod or tape measure

+ Cordless drill driver



For use of the single anchor points (SAP), we recommend personal protective equipment (PPE):
With Duraklick Fall Protection Device, Full-body harness, optionally IKAR fall protection devices, or alternatively our adjustable self-retracting lifeline with webbing energy absorber.
We would be happy to provide you with an optional quote for this equipment.



Fall Protection Device

Full body harness

Optional:
AM4 Self-Retracting Lifeline
with Webbing Energy Absorber

General instructions and preparations

The Duraklick Single Anchorage Point (SAP) is a fall protection device specifically designed for Duraklick PV mounting systems. It is compatible with all Duraklick systems (SR, EW, GR, ECO, and XL).

Installation Note:

- The fall protection system may only be installed by qualified installation personnel.
- Installation must be carried out in accordance with the instructions provided in this installation manual.

1. Single Anchorage Point

Single Anchorage Point Type A & E according to DIN EN 795, tested in accordance with CEN/TS 16415:2017 by DEKRA EXAM GmbH for dynamic and static load capacity according to clauses 4.4.4 and 4.4.5 and CEN/TS 16415:2017 in September 2025.

Approved for a maximum of 2 persons simultaneously.

2. PPE Sets (red bag)

The bags containing the PPE sets (full-body harness, fall arrester, fall protection device / AM4 self-retracting lifeline / webbing energy absorber) should be stored near the access point or roof entrance, kept dry and protected from UV exposure.

3. Fall Protection During Installation

Please ensure proper fall protection during assembly! For safety reasons, work in fall hazard areas must not be carried out alone.

4. Photograph Roof Damage!

Before installation, carefully inspect the roof for any kind of damage. In particular, water pockets or other defects should be documented with a digital camera to prevent any future claims.

5. Clean the Roof

Remove all drilling and metal shavings from the roof! Do not place screws or sharp tools on the roofing membrane!
The roof surface could be damaged!



Warning!

Qualified Personnel Only!!

The installation of the Duraklick Single Anchor Point may only be carried out by a qualified installer.

TIP



Document any roof damage with photographs!



Clean the roof.



Wear gloves during installation!
Risk of injury from sharp edges!

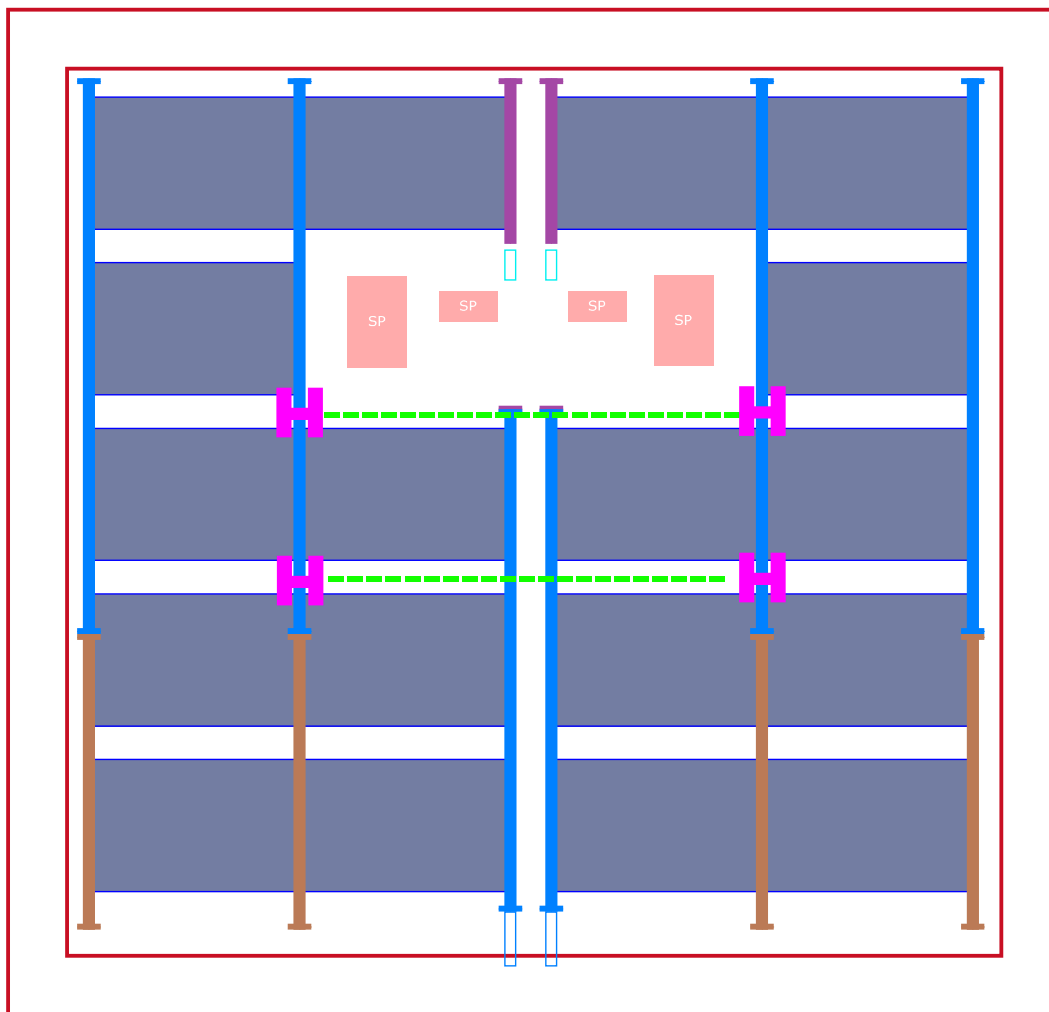
1. Planning and requirements

Each Duraklick Fall Protection System is individually designed by Soltop for the specific PV installation.
The executing installation company receives a project-specific installation plan.

Checking the Delivery

Immediately upon delivery, inspect all components for completeness and any possible damage.

Example of an Installation Plan



Legend:

	HSS Guide Rail
	Switch
	End Stop
	Entry/Exit
	HSS Standard Fixing Point
	HSS Standard Fixing Point + 90° Extension
	HSS Standard Fixing Point + 45° Extension
	Wire Rope
	Single Anchor Point EAP Foldable

2. Important Dimensions

Verification of Conditions

Before starting installation, check the dimensions and specifications in the plan against the actual conditions.

It is possible that a PV system was constructed differently than originally planned.

The following points are particularly important:

1. Minimum Weight

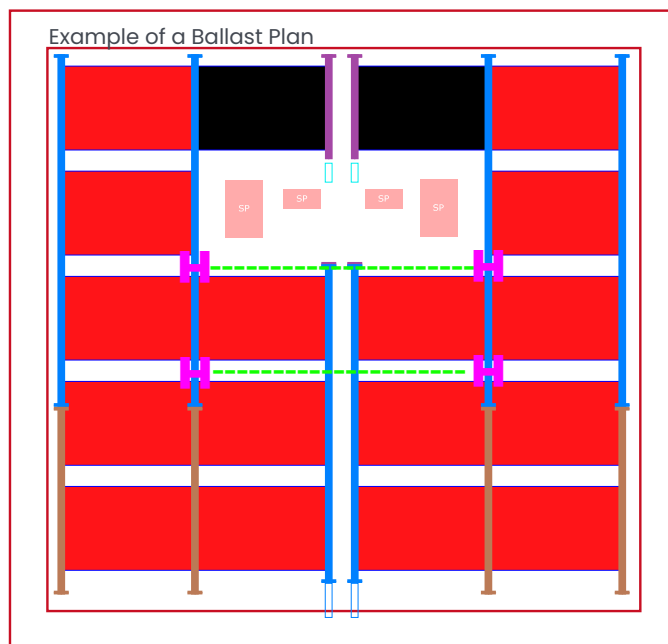
The weight of the module field must be at least 460 kg.

2. Position of the EAP

For safety reasons, the Duraklick Single Anchor Point must be positioned at a minimum distance of 2.50 m from the edge of the roof.

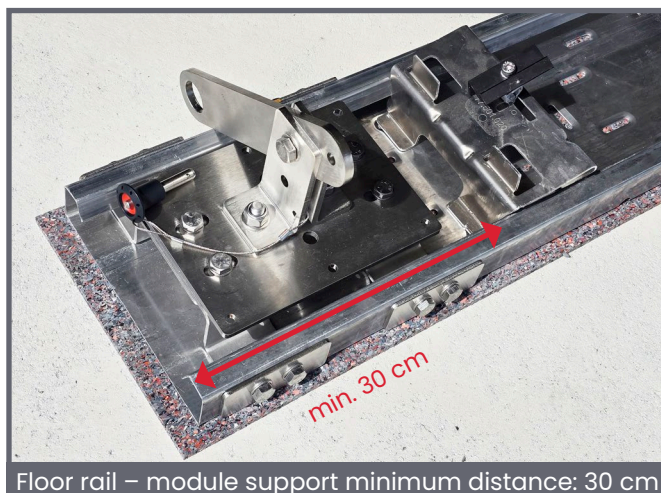
3. Placement of the Single Anchor Point

The single anchor points are mounted on the floor rails using two standard anchor points. The EAPs must be safely accessible and positioned to prevent swing falls.



4. Requirements for the Duraklick Floor Rails

A minimum overhang of 30 cm of the Duraklick floor rails must be provided before the first module support.



Warning

Do not install short floor rails (0.70 m and 1.40 m) at positions designated for anchor points.

3. Optional: Rotate the base plate by 90°

Before installation!

The single anchor point with attachment eye can be rotated 90° to mount it either longitudinally or transversely on the floor rail base plate.

1. Loosen the Screws

Loosen the two screws that secure the EAP to the base plate.



Loosen both EAP screws

2. Rotate the EAP by 90°

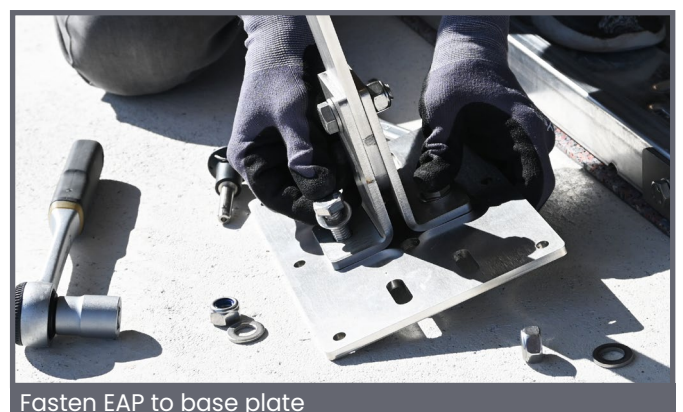
The single anchor point can now be removed, rotated by 90°, and repositioned over the screw holes.



Rotate SAP 90° and secure to base plate

3. Secure the EAP to the Base Plate

Insert the two screws into the designated holes and tighten them.



Fasten EAP to base plate

4. Place the Base Plate and Fasten

Place the base plate with the newly aligned and securely fastened attachment eye onto the mounting points. Insert and tighten the four screws to secure the base plate with the EAP to the designated mounting points.

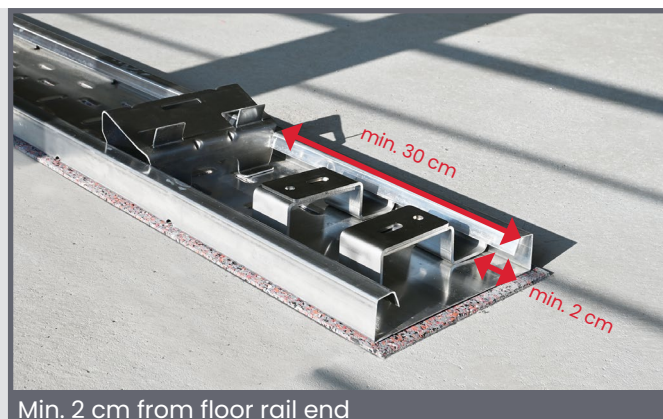


Securing the base plate to the mounting points

4. Mounting Anchor Points + Base Plate

Measuring the Mounting Points

Mounting points must be at least 2 cm from the end of the floor rail. Position the drilling template accordingly. The floor rail must overhang the module support by a minimum of 30 cm. Installation can be performed at any point along the floor rail.



Min. 2 cm from floor rail end

1. Drilling

Drill the eight holes for mounting the two anchor points using an 11.5 mm drill bit. For precise drilling, please use the original HSS drilling template.



Ensure all drill shavings and debris are cleared from the roof membrane.



Use drilling template to drill holes in floor rails

2. Insert the Anchor Points

Insert the four halves of the anchor points into the floor rail.



Place anchor points into floor rail

3. Secure the Anchor Points

The stainless steel screws (M10 × 25 mm) are inserted from the outside through the floor rail and the anchor points with the load distribution plate. Do not fully tighten yet!



Slightly tighten anchor points

4. Mounting Anchor Points + Base Plate



Position and Fasten Base Plate

4. Place the Base Plate

Position the base plate with attachment eye on the anchor points. Fasten it with the supplied screws and tighten securely.



Secure screws from the side

5. Securing the Anchor Points

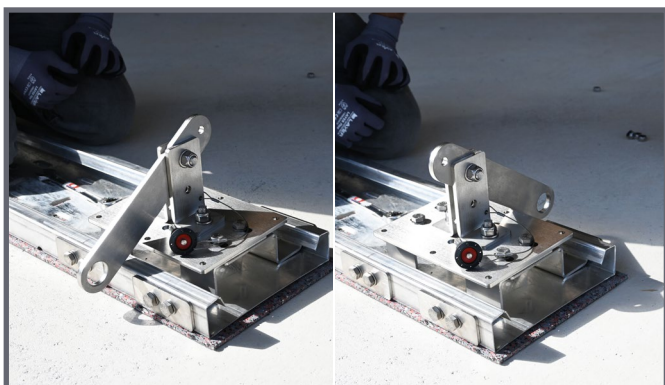
The tightening torque for stainless steel screws M10, strength class 70, is min. 25 Nm. The screws are coated with a two-component adhesive (colored on the threaded part). Each screw must only be used once. If removed, a new screw must be used because the adhesive has been activated. Re-tightening is only possible within 20 minutes after initial installation.



Remove safety pin

6. Safety Pin

The EAP is secured in the upright position with a safety pin. Press the button on the safety pin to release it and fold the SAP in the desired direction. Anchoring with a wire rope prevents loss of the safety pin.



Foldable in both directions

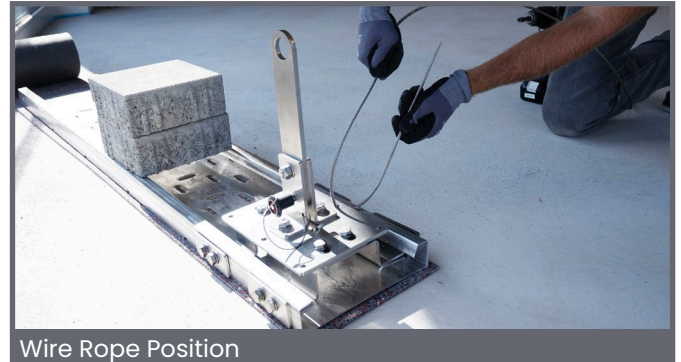
7. Foldable

The SOLTOP Single Anchor Point is foldable in both directions to avoid shading of the PV modules when not in use.

5. Wire Rope Installation

1. Installation the Wire Rope

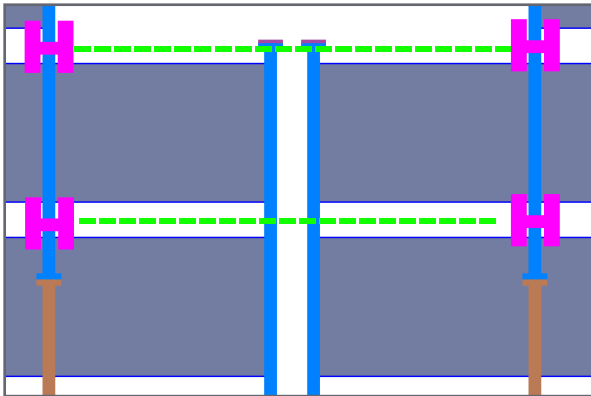
If the load introduction is planned perpendicular to the floor rail, feed the wire rope end through the designated hole in the base plate of the single anchor point. Then secure it with two cable clamps (approx. 30 cm overhang) and connect it to the underlying floor rails.



Wire Rope Position

2. Routing Along the Floor Rail

Lead the wire rope to the opposite anchor point (or as per plan) to the corresponding floor rail. Mark the rail at the appropriate position and drill through with an 8 mm drill bit.



Secure Cable Clamps

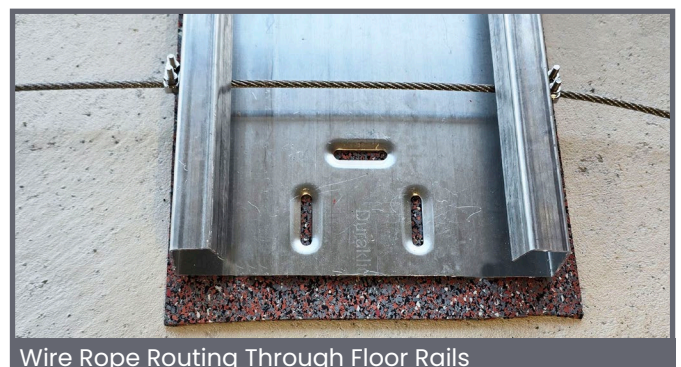


Ensure all drill shavings and debris are cleared from the roof membrane.

3. Attaching Cable Clamps

Thread two cable clamps between the rails and feed the wire rope through the holes in the rails.

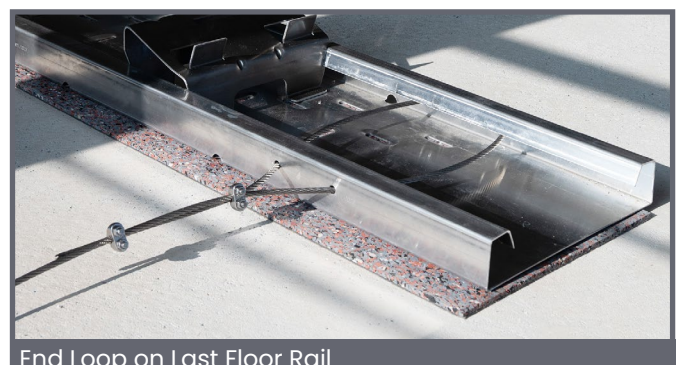
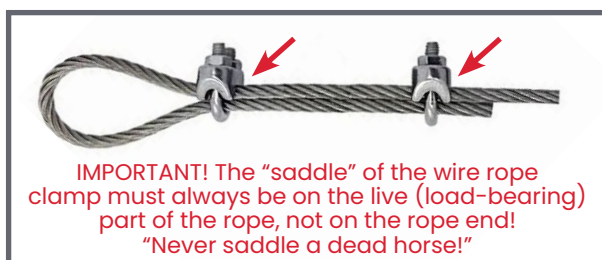
If only one anchor point is installed on one side and there is only one possible fall direction, one cable clamp per side is sufficient. Tension the wire rope lightly and secure it at the opposite anchor point with two cable clamps.



Wire Rope Routing Through Floor Rails

4. Last Rail in the Assembly

For a single-side anchor point, route the wire rope through the last drilled rail and return it. Then attach two cable clamps, slide them along the rails, and tighten securely.



End Loop on Last Floor Rail

6. Final Check

1. Inspection

Check the system to ensure that all connectors are securely fastened.

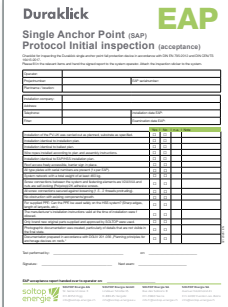
2. Functional Test

Check the Single Anchorage Point (SAP) for proper functionality, with particular attention to its foldability.



3. Completion of Acceptance Protocol

After installation of the Single Anchorage Points, an inspection must be carried out in accordance with the "Duraklick SAP Initial Inspection (Acceptance)". The results of this inspection must be documented in accordance with the requirements of the "Requirements for Installation Documentation – DGUV Information 201-056".



The form is titled "Duraklick EAP Single Anchor Point (SAP) Protocol Initial Inspection (acceptance)". It contains a table for recording inspection results for multiple SAPs, with columns for SAP ID, Date, Inspector, and a grid for various inspection criteria. The bottom of the form includes fields for the inspector's name and signature, and the Soltop logo.

4. Attachment of Nameplate

After the initial inspection, attach the nameplate to the side of the anchorage eye. The numbering on the nameplates must correspond to the placement shown in the installation plan.



5. Attachment of Warning Sign

The warning sign indicates whether the system is operational and can be used, or not (e.g., due to maintenance or modification work). The sign must be mounted in a clearly visible location at the roof access or the nearest roof entry point, with the front side facing outward.

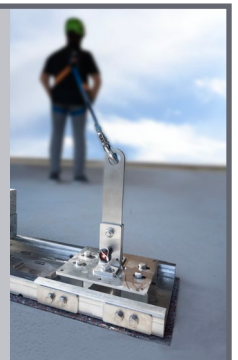


6. Provision of PPE Sets

The PPE sets (red bag) must be stored so that they are quickly and easily accessible to roof personnel at all times. The optimal location is directly at the roof access, in a dry place, protected from UV exposure, and easily reachable.



The fall protection system is now operational. For correct use of the system, refer to the instruction manual provided with each Soltop PPE set (red bag).



Regular Inspections

The system is an anchorage device compliant with DIN EN 795 Type A & E and must be inspected at regular intervals. All recurring inspections must be performed exclusively by SOLTOP-certified specialists. The appropriate inspection and acceptance protocols are provided for this purpose.

Acceptance Protocol:

After installation of the HSS, the system is checked and accepted using this protocol. The original remains with the operator; SOLTOP receives a copy via email.

Duraklick EAP
Single Anchor Point (SAP)
Protocol Initial inspection (acceptance)

Duraklick EAP
Single anchor point (SAP)
Protocol (Recurring inspection)

Recurrent Inspection – Documentation:

The recurrent inspection documentation (RID) is used for the annual or biennial inspection. It is carried out by a competent inspector, who provides the operator with a photo documentation. SOLTOP receives a copy via email and sends the operator a compliance label.

SOLTOP Energie GmbH has certified inspectors for:

- personal fall protection
- equipment (PPE) and the Duraklick fall protection systems.

Inspection Intervals:

Duraklick Fall Protection Systems
= every 24 months

All components permanently connected to the Duraklick mounting system.

PPE (Personal Fall Arrest Equipment)
= every 12 months

Harnesses, connectors, fall arresters, fall protection devices.

Manufacturer Information

The Duraklick Single Anchor Point (EAP) for fall protection is manufactured by:

SOLTOP Energie GmbH
Lindauer Straße 15
D-88145 Hergatz
www.soltop-energie.eu



The system has been tested and approved by the following testing institute:

DEKRA Testing and Certification GmbH
Dinnendahlstr. 9
44809 Bochum
Zertifikat Nr.: ZP/035/22-PZ

ZERTIFIKAT

(1) Nr. des Zertifikats: **ZP/019/26-PZ**

(2) Produkt: **Anschlageinrichtung Typ A und E
Typ: Duraklick EAP**

(3) Hersteller: **SOLTOP Energie GmbH**

(4) Anschrift: **Lindauer Strasse 15
88145 Hergatz**

(5) Die Bauart dieser Produkte sowie die verschiedenen zulässigen Ausführungen sind in der Anlage zu diesem Zertifikat festgelegt.

(6) Die Zertifizierungsstelle der DEKRA Testing and Certification GmbH bescheinigt, dass diese Produkte die Anforderungen gemäß den unter Punkt 6 aufgeführten Prüfgrundlagen erfüllen. Die Ergebnisse der Prüfung sind in dem Bericht PB 25-211 niedergelegt.

(7) Die Anforderungen werden erfüllt durch Übereinstimmung mit
DIN EN 795:2012 und DIN CEN/TS 18415:2017

(8) Dieses Zertifikat bezieht sich nur auf die Konzeption und die Prüfung der beschriebenen Produkte in Übereinstimmung mit den genannten Prüfgrundlagen. Für Herstellung und Inbetriebnahme der Produkte sind gegebenenfalls weitere Anforderungen zu erfüllen, die nicht durch dieses Zertifikat abgedeckt sind.

(9) Der Hersteller ist berechtigt, das Prüfzeichen an den mit den geprüften Bauteilen übereinstimmenden Erzeugnissen gemäß dem beigefügten Muster hinzuzufügen.

(10) Dieses Zertifikat ist bis zum 03.02.2031 gültig.

DEKRA Testing and Certification GmbH
Bochum, den 04.02.2026

Q. Bunn
Geschäftsführung

Labelling Instructions:

Duraklick fall protection systems are identified by a nameplate. It contains the following information:

Einzelanschlagnpunkt / Single anchor point soltop energie

Absturzsicherung Duraklick EAP / Duraklick EAP fall protection

Maximal zugelassene Personen: **2**
Maximum permitted number of persons: **2**

Vor Gebrauch die Anleitung lesen!
Please read manual before use!

Baujahr / Year: Serien-Nr. / Serial-No.

Hersteller/Manufacturer: **SOLTOP Energie GmbH**
D-88145 Hergatz
www.soltop-energie.eu

Nächste Prüfung: Next check:



**Duraklick EAP
for Fall Protection**

Safe and Reliable!



Downloads



For more information, please visit www.soltop-energie.ch & www.soltop-energie.eu

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