ODIN SAFETY

Connect Line Connect Life

OD-FLASH / ENERGY TRANSMISSION LINE POLE BOLT HANGER

User Guide

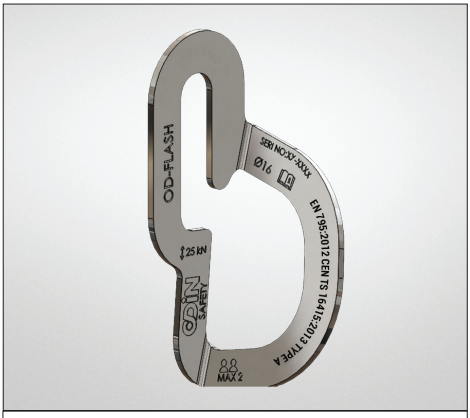
1.
Product Usage Report

Serial Number : .....
Date of Production : .....
Date of Delivery : .....
Stamp & Signature : .....
.....
.....
.....
.....
Date of first use : .....
Name & Surname of user : .....

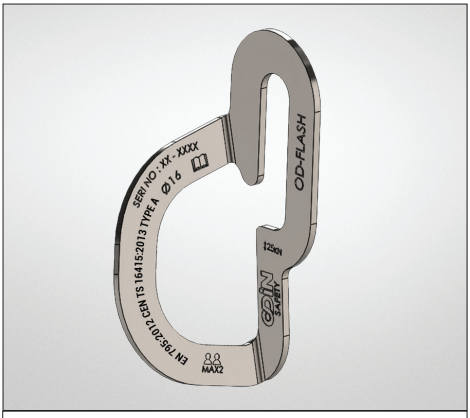
2.
Annual Product Inspections

B.1	B.2 Inspection Date	B.3 Next Inspection Date	B.4 Inspected by
1			
2			
3			
4			
5			
6			
7			

3.
OD-FLASH (ENERGY TRANSMISSION LINE POLE BOLT HANGER)
(EN 795:2012 TYPE A ve CEN/TS 16415:2013 TYPE A)



OD-FLASH Right



OD-FLASH Left

3.1 Area of Use

OD-FLASH is a fixed anchor. It is designed to create an anchorage points in the power transmission line poles formed with bolt. In that areas, OD-FLASH is fixed to the structure permanently and creates a safe point for the user. It has two different types as Left and Right.

3.2 Features

- It is produced, tested, and certified by EN 795: 2012 TYPE A and CEN / TS 16415: 2013 TYPE A standards.
- It is made of stainless steel.
- It is suitable for 2 people to work at the same time.
- Its axial direction strength is 25 kN.
- It is fixed with an M16 Bolt.

Certification

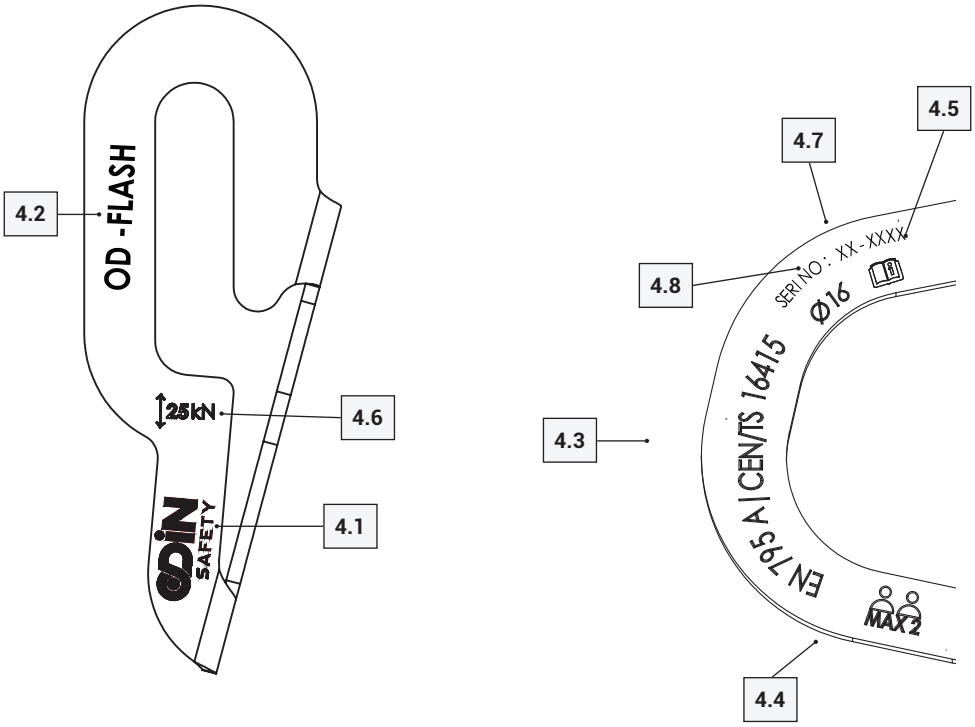
EN795:2012 TYPE A

CEN TS 16415:2013 TYPE A

Max. Number of User

2

4.
Label



Code	Description	Code	Description
4.1	Producer	4.5	Read User Guide
4.2	Model Name	4.6	Strenght
4.3	Standard	4.7	Serial No
4.4	Max. Number of Users	4.8	Diameter

5.
Warning Label

ANKRAJLAR
ANCHORAGES

DİKKAT ! /*ATTENTION !*
YÜKSEKTE ÇALIŞMA BU NOKTADAN İTİBAREN BAŞLAMAKTADIR.
WORKING AT HEIGHT

DÜŞÜŞ DURDURMA KEMERİ (EN361) İLE BİRLİKTE ANKRAJ NOKTASI OLARAK KULLANIN.
USE A FALL ARREST HARNESS (EN 361)

- ☐ EN 795/A:2012 / CEN/TS 16415/A:2013
- ☐ EN 795/B:2012 / CEN/TS 16415/B:2013

UYARI: SİSTEMİN PERİYODİK KONTROLÜ YILDA EN AZ BİR DEFA YAPILMALIDIR.
ATTENTION : ANCHORS must be checked by a qualified person at least once a year.

Ankraj / *Anchorage*	OD-EXT ☐	OD-BH ☐	OD-S6 ☐	OD-FLASH ☐	OD-FQ ☐	OD-RB44 ☐	OD-IBR ☐

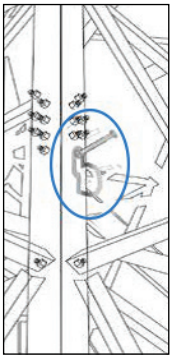
Kurulum Tarihi / *Installation Date*	.....
Kurulum Uzmanı / *Installation By*	.....
Yetkili Kişi / *Authorized Only*	.....
Maksimum Kullanıcı / *Max. Users*	.....
Bir Sonraki Kontrol Tarihi / *Next Control Date*	..... / ..... / ..... / .....

Odin Safety Endüstriyel Ürünler Anonim Şirketi
Merkez Ofis: Merkez Mahallesi Hasat Sokak No:52/1 Şişli/İSTANBUL
Üretim/Depo: Tatlıkuyu Mah. 1302/3 Sokak No:23/B Gebze/ KOCAELİ
+90 (212) 963 16 41
info@odinsafety.com.tr
www.odinsafety.com.tr
www.odinisguvenligi.com

6.
Installation

OD-FLASH must be installed by Odin Safety teams or personnel trained and authorized by Odin Safety. The Responsibility of the whole system belongs to the company that performed the installation. See the installation details in 6.1 section and the documentation after installation and periodic examination in Annex A.

6.1 OD- FLASH Installation



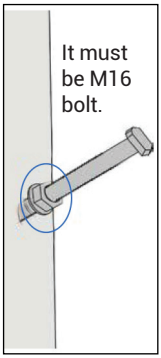


Figure -1

Figure -2

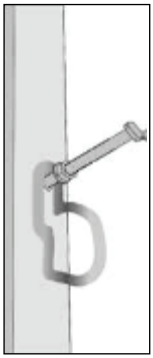


Figure -3

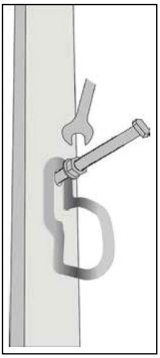


Figure -4

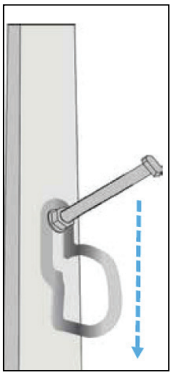


Figure -5

Choose OD- FLASH (R) or OD-FLASH (L) according to the lateral surface for installation. Fort he installation follow the steps as below;

1. If there is no suitable diameter slot in the steel construction of the floor where the product will be installed, drill a Ø M16 hole for the anchor (OD-FLASH)
2. If there is a nut on the bolt, loosen it as in Figure-1
3. Place the anchor (OD-FLASH) on the bolt shown as in Figure- 2
4. After placing the the anchor (OD-FLASH), tighten the nut on the bolt with a wrench as shwon in Figure-3. Torque must be 40kN.

⚠	**Warning:** Load direction must be downward (Figure-4)
⚠	**Warning:** It should be used with locked nuts.

A. Responsibility

- Users must read and understand the user guide before using the product.
- Working at height contains dangers that can lead to injuries and fatal accidents.
- It is the responsibility of the user to learn and apply proper usage techniques and safety methods.
- OD-FLASH must be used only by or under the supervision of trained personnel.
- Misuse or improper use can result in serious injury and fatal accidents.
- It is not suitable to use for lifting and carrying materials.
- It must not be used outside of its design purpose.
- It is not suitable for working at heights alone, it must be used together with the types of equipment with CE certified Full Body Harness (EN 361), shock-absorbing lanyard (EN 355), carabiner (EN 362).
- Full body harness is the only acceptable body holding device that can be used in a fall arrest system.
- It is essential for safety that the anchor device or anchor point should always be positioned, and the work carried out in such a way, as to minimize both the potential for falls and potential fall distance. Where it is essential that the anchor device/point is placed above the position of the user to limit the risk and the height of a fall. Misuse of it could result in serious injury or death.
- Users should be medically fit to work at heights. Poor health (heart and circulation problems, assumption of medication, alcohol) may have negative influence on the safety of a person working at a height.
- This product should be used at temperatures between a minimum of -30 ° C and a maximum of + 70 °
- If any steps are not clear during the installation phase, get in touch with the manufacturer.

B. Using OD-FLASH (ENERGY TRANSMISSION LINE POLE BOLT HANGER) ((EN 795:2012 TYPE A, CEN/TS 16415:2013 TYPE A)

- They have been tested and approved by QUINTIN CERTIFICATIONS, an ISO 17025 accredited laboratory to use by 2 people at the same time.
- The strength of the structure where the anchor assembly will be made must be checked.
- It can be used on the power transmission line pole formed with bolts. The strength of the structure where the anchor assembly will be made must be checked to be sure that it resists to this load. In the case of a fall, the force to be generated on the structure is in the direction of the user's fall and will be at the upper anchor point. That maximum force is 13 kN.
- The warning label and the product must be checked and it must be determined whether the anchor is suitable for use. Makes sure that the date of the next check of the system is not due, or it is not more than a year from the last date of the check.
- The next control date of the system on the warning sign must continue or not exceeded 1 year from the last control date.

C. Supplementary Information Regarding standard; EN365

C1. Rescue Plan

It is compulsory to prepare an emergency rescue plan for any accident that the employee has experienced during the use of the product and rescue plans must be put in place to solve any emergency situations that may arise during work execution.

C2. Anchor Point

The strength of the structure where the anchor assembly will be made must be checked to be sure that it resists to this load. In the case of a fall, the force to be generated on the structure is in the direction of the user's fall and will be at the upper anchor point. That maximum force is 13 kN.

C3. Various Situations

» A fall arrest harness must be used once to protect the working personnel during the fall

» In the Fall Arrest system, safe fall distance must be measured before each use to prevent the user from hitting the ground or other surfaces in the fall situation.

» A dangerous situation may be raised when more than one product is used together so the safety function of the equipment should not affect each other.

D. Product Control and Validation

D1. Before & After Each Use

The product must be checked regularly before and after each use, and findings must be recorded. Check the product according to the following criteria if.

» There is any deformation on the ground where the installation is being made,

» There is any wear, cracks, fractures, corrosion on it

» There are any chemicals exposed with it,

If the product has one of the above conditions, the product must be withdrawn from use immediately, not used, and the manufacturer must be informed about it.

D2. During Each Use

When using OD-FLASH with another system, make sure that the whole system is correctly positioned and compatible with each other.

E. ODİN SAFETY General Information

E1. Product Life

Metallic materials do not have a theoretical lifetime. The product must be checked periodically at least once a year and it must be documented whether it is safe to use or not. ODIN SAFETY is not responsible for the use of the product that doe not have annual periodic control.

» OD-FLASH is made of stainless steel material.

» The material is highly resistant to atmospheric corrosion.

» Superficial rust stains can be seen on the product depending on the area of use (industrial areas; iron dust and chemicals in shorter times. Areas close to the sea; salt in the air). These superficial stains can be removed with an appropriate maintenance program.

» The suitability of the system for use is given only one circumstance that the annual periodic controls are carried out and resulted positive by the manufacturer or persons Authorized by the manufacturer.

» Regular periodic examinations and that the safety of users depends upon the continued efficiency and durability of the product.

» The product must be withdrawn from the service immediately and destroyed to prevent further usage in the following situations;
- If there has been a drop in the system
- If corrosion is observed on the system components,
- If the system was recorded not suitable for use during control and any doubt about it,
- If there are changes in standards, laws, compliance with the usage technique, and similar cases.
- There is any doubt arise about its condition for safe use.
- It has been used to arrest a fall and not used again until confirmed in writing by a competent person that it is acceptable to do.

E2. Storage

The product is offered with its user guide and its model and standard written on it. The storage area of the product should be meet the following criteria;

- The product must be kept away. abrasive chemicals (acids, solvents, etc.)
- The product must be kept away from heat sources.

E3. Maintenance

Taking good care of the product after each use extends the life of it. Use metal cleaners to clean the product. For more information, you can contact us at **info@odinsafety.com.tr**

E4. Changes & Repair

Modifications (repairs or additions, changing a part) are strictly forbidden without the written permission of Odin Safety.

- Any repairs on the product are carried out only by the manufacturer (Odin Safety) or manufacturer's authorized persons.
- Odin Safety is not responsible for the dangers that may arise if the repair and maintenance are carried out by unauthorized persons.
- The product information of usage, maintenance, and repair can be obtained from the authorized distributor in the official language of the country where the product is in service.

E5. Periodical Inspection

Before each use of your product or in certain periods, products must be checked at least once a year by the manufacturer or by a competent person authorized by the manufacturer. These control and maintenance dates should be written on the warning label.
The safety of users depends upon the continued efficiency and durability of the equipment. Check the legibility of the product markings.
During the inspection of product following information should be recorded; Type of the product, model, contact information of producer, serial number, date of production, date of purchase, date of first use, next inspection date, problems, recommendations, name and surname of inspector.
For detailed information, **visit www.odinsafety.com.tr**

E6. Warranty

This product is guaranteed for 10 years against all kinds of material and manufacturing defects under proper usage and storage conditions. The warranty is not valid in the following cases;

- Use in wrong areas,
- Product is misused, torn, cut, corroded, damaged by accidents
- Periodic controls are done by unauthorized persons.
- Repair and Maintenance are done by unauthorized persons.
- Decline
- Failure to comply with storage conditions

F. Certification

This product is certified the ISO 17025 accredited laboratory QUINTIN CERTIFICATIONS for EN 795:2012 TYPE A , CEN/TS 16415: 2013 TYPE A standard.

QUINTIN CERTIFICATIONS
825 route de Romans
38160 Saint Antoine l'Abbaye
France

Warning: Please read the usage instructions carefully before using. The user manual must be published in its own language in each country.

Warning: it s essential for the safety of the user that if the product is re-sold outside the original country of destination the reseller shall provide instructions for use, for maintenance, for periodic examination and for repair in the language of the country in which the product is to be used.

SHEMATIC INSTALLATION PLAN

Schematic installation plan

Building/Structure

Address:
Remarks:

Order no.:
Building type:
Roof shape:
Anchor device:

Customer

Name:
Address:

Contact person:
Phone:

Installer

Name:
Address:

Chief installer:
Phone:

Anchor device

Manufacturer:
Model/type identification:

Building component

Component 1: e.g. concrete ceiling
Component 2: e.g. concrete column
Building matl: e.g. reinforced concrete

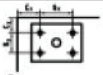
Minimum thickness: e.g. 250mm
Minimum thickness: e.g. 500mm
Quality: e.g. min. C25/30

Fixings/Dowels

Manufacturer:

Fixing data
☐ data not required if through fixed

Drill-hole diamt : ____ mm
Drill-hole depth : ____ mm
Torque : ____ Nm



Type:
Material:
Min. edge distance (c):
Min. axial spacing (s):
Min. component thickness:
Permissible tensile force:
Permissible shear force:

Real situation:
Edge distance Cx: ____ Cy: ____
Axial spacing Sx: ____ Sy: ____

Remarks:

Drilling method:
☐ Hammer
☐ Rotary
☐ Torque controlled spanner

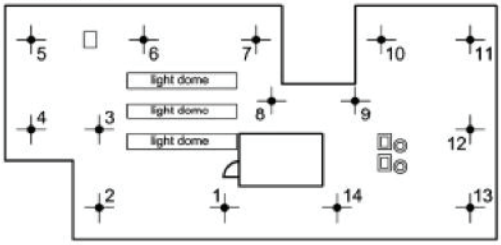
Testing device:
☐ Drill-hole cleaning
☐ Fixing test device

Impact System
☐ yes ☐ wet ☐ yes
☐ no ☐ dry ☐ no

CHECK LIST:

- ☐ Substrate as expected (no doubt on capacity)
- ☐ Installation complies with manufacturer's instructions
- ☐ Recommended fixings used
- ☐ All fixings photographed with identification number
- ☐ Fixings exposed
- ☐ Installation plan placed on site →
- ☐ Screw securing by through hole fixing technology
- ☐ Additional information ____

Roof ground plan:



Required pull-out force (kN), required torque [Nm] achieved?

Anchor point 1 ____	Anchor point 5 ____	Anchor point 9 ____	Anchor point 13 ____
Anchor point 2 ____	Anchor point 6 ____	Anchor point 10 ____	
Anchor point 3 ____	Anchor point 7 ____	Anchor point 11 ____	
Anchor point 4 ____	Anchor point 8 ____	Anchor point 12 ____	

Additional fixings: ____
Remarks by the chief installer: ____

Date: Signature:

ODIN
SAFETY

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