



Connect Line

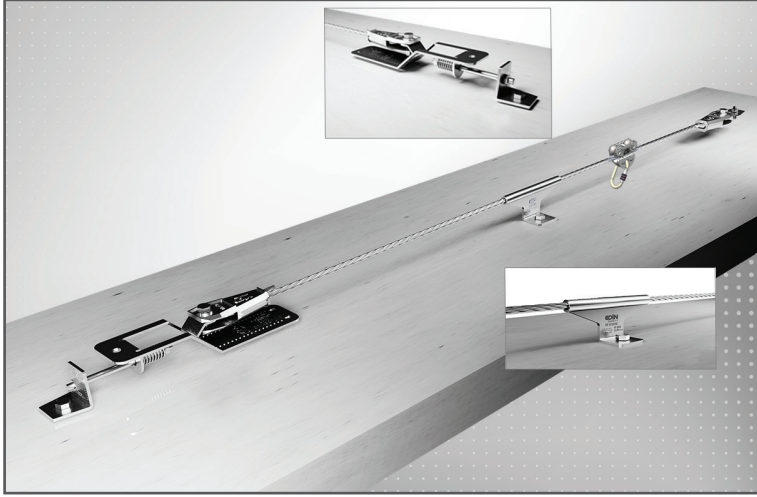


Connect Life



OD-ECOLINE / HORIZONTAL LIFELINE SYSTEM

User Guide



1. Product Usage Report

Serial Number :

Date of Production :

Date of Delivery :

Stamp & Signature :

.....

.....

.....

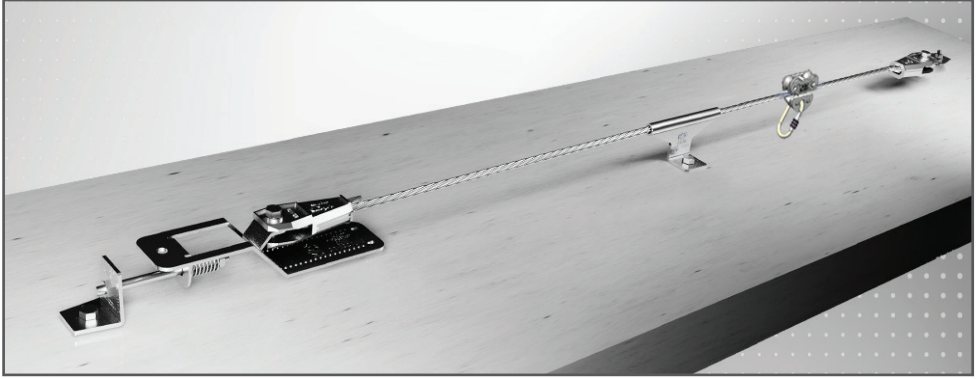
Date of first use :

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-ECOLINE Horizontal Lifeline System
EN 795/C:2012, CEN/TS 16415/C:2013



3.1 Area of Use

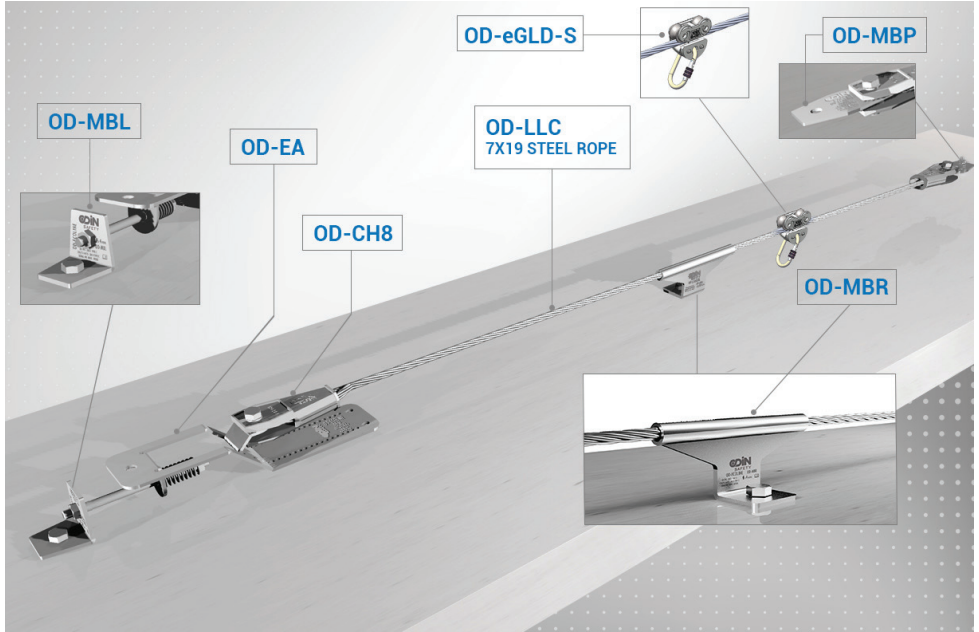
OD-ECOLINE is a permanent Horizontal Lifeline System. It is a versatile system made of stainless steel components, and stainless steel rope. OD-ECOLINE has a smart shock (energy) absorbing system. Roofs, crane roads, crane tops, and on-vehicle are the areas where there is a high risk of falling. OD-ECOLINE is permanently fixed to the structure and provides the user with a permanent anchorage (safe safety point). Between two consecutive anchors for multi span is 2 m/20m ; single span is 4m /20m. It is designed for 4 users to work at the same time. It can be applied to a wide variety of structures, walls, floors, ceilings.

3.2 Features

- » It is produced, tested, and certified with EN 795/C:2012, CEN/TS 16415/C:2013 standards.
- » It is made of stainless steel components,
- » It has the highest spacing in the class with a max. 20-meter.
- » It is suitable for 4 users to work at the same time.
- » It has 2.48-2.51 meter depleted distance with 4 persons.

Certification	Maximum No of Users	Maximum Distance	Force Directions
EN795:2012 TYPE C CEN/TS 16415:2013 TYPE C	4	20 mt	↕
Installation Substructure			
           			

4. OD-ECOLINE Components



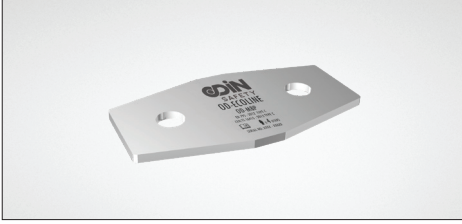
4.1 OD-ECOLINE Components - General

Code	Description	Code	Description
OD-MBP	Main Anchor	OD-CH8	Rope Holder
OD-MBR	Intermediate Anchor (Roof, Wall)	OD-LLC	7X19 Stainless Steel Rope
OD-MBL	Main Anchor	OD-eGLD-C	C Type Glider
OD-EA	Energy Absorber	OD-eGLD-S	Pulley Trolley Glider



4.2 OD-ECOLINE Components- Details

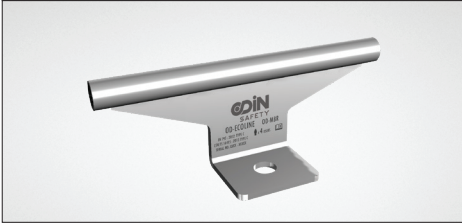
OD-MBP Main Anchor / Stainless Steel



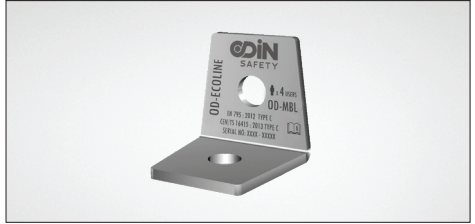
OD-CH8 Rope Holder / Stainless Steel



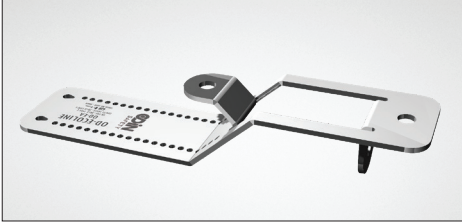
OD-MBR Intermediate Anchor(Roof, Wall)/Stainless Steel



OD-MBL Main Anchor / Stainless Steel



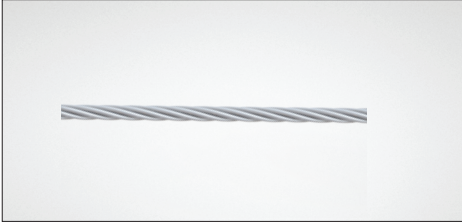
OD-EA Energy Absorber / Stainless Steel



OD-eGLD-C C Type Glider / Stainless Steel



OD-LLC 7x19 Rope / Stainless Steel



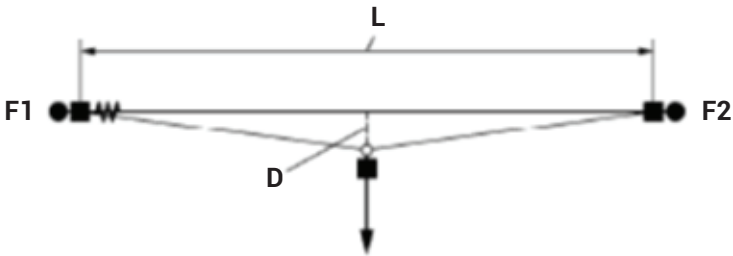
OD-eGLD-S Pulley Troyler Glider/Stainless Steel



5.
OD-ECOLINE Dynamic Performance Test

5.1 Dynamic Performance- Direct Installation on Structure

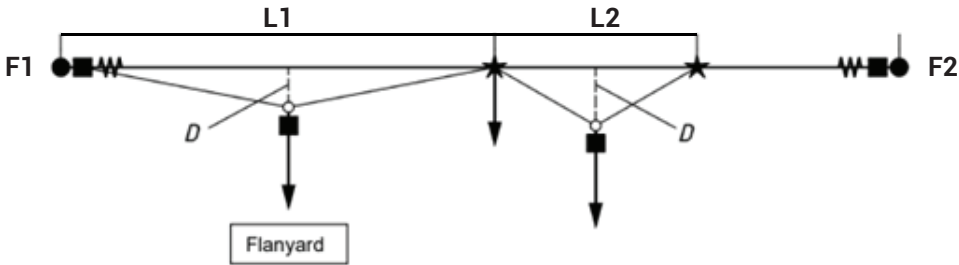
5.1.1 Single Space- Use on (Wall / Floor)



F1: Force on the anchor(kN)
F2: Force on the anchor(kN)
L: Distance between two anchors(m)
D: Deflection after the force applied(mm)

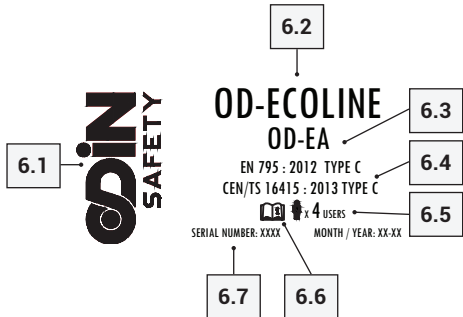
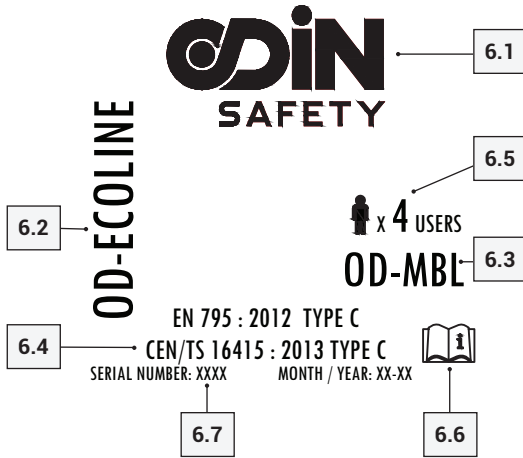
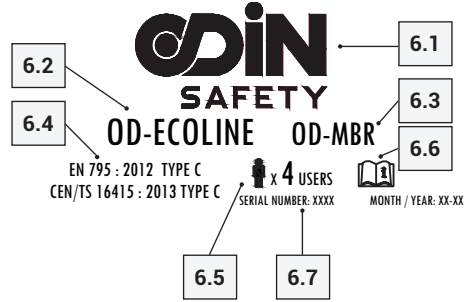
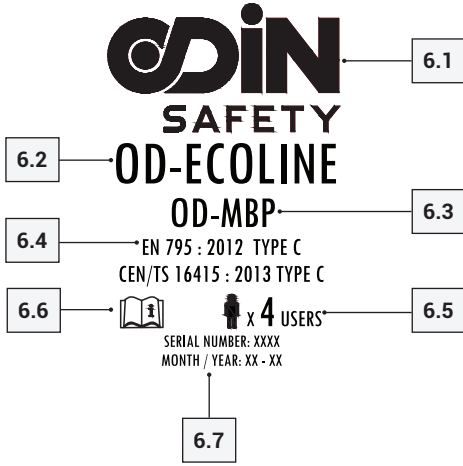
Lenght (L)	1 person			2 person			3 person			4 person		
	D	F1	F2	D	F1	F2	D	F1	F2	D	F1	F2
4	480	13,1	13,2	710	15,5	15,8	710	12,6	13,0	710	13,3	13,6
20	1630	14,7	15,0	2510	16,9	17,5	2510	14,0	14,5	2510	15,2	15,5

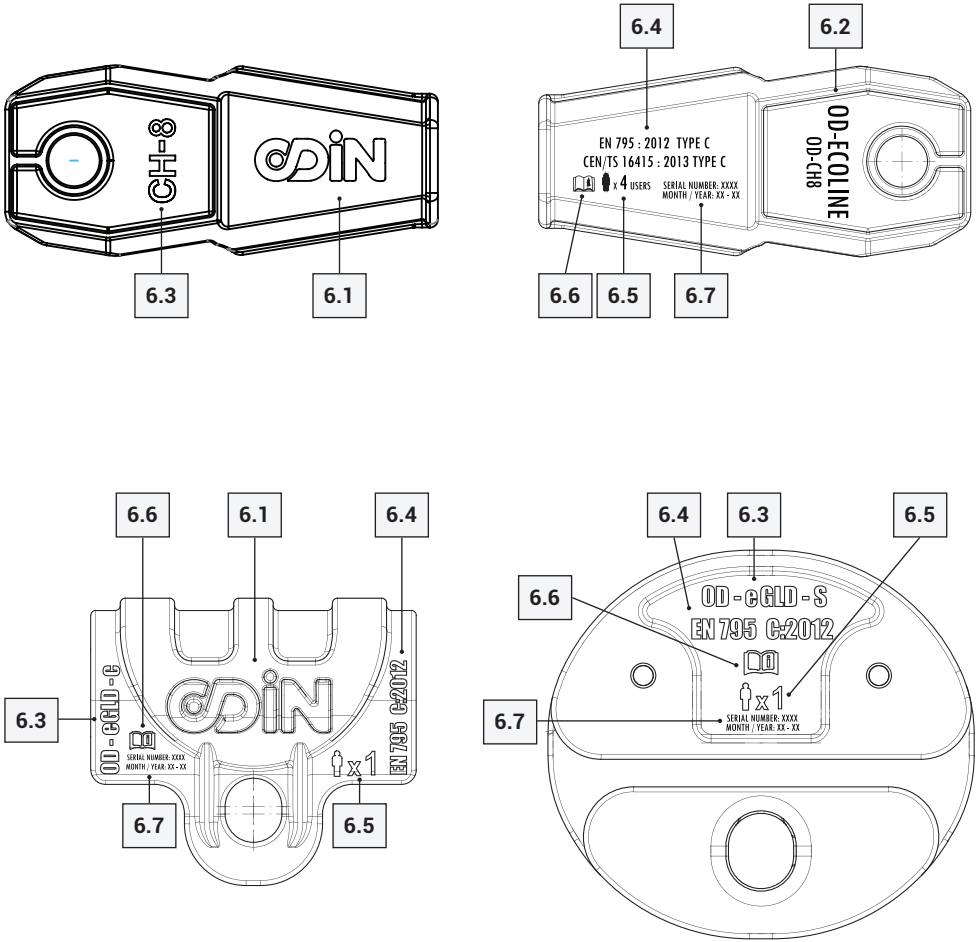
5.1.2. Multi Space – Use on (Wall / Floor)



Lenght (L1)	Lenght (L2)	1 person			2 person			3 person			4 person		
		D	F1	F2	D	F1	F2	D	F1	F2	D	F1	F2
20	2	1710	15,4	14,6	2430	15,0	14,6	2460	13,9	12,7	2480	14,9	13,3
2	20	410	7,6	7,9	500	11,4	11,6	500	10,2	9,1	500	10,6	9,1

6.
Label





Code	Description	Code	Description
6.1	Producer Name	6.5	Max. Number of Users
6.2	Model Name	6.6	Read User Guide
6.3	Component Code	6.7	Serial No
6.4	Standard		



7.
Warning Label



OD-ECOLINE YATAY YAŞAM HATTI
OD- ECOLINE HORIZONTAL LIFELINE



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/C:2012, CEN/TS 16415/C:2013



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

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 A. Ş.
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Sarıyer 34485 İstanbul
Depo: Tatlıkuyu Mahallesi 1302/3 Sokak No:23/B Gebze / KOCAELİ
Fabrika: Düzce 1. Organize Sanayi Bölgesi Düzce

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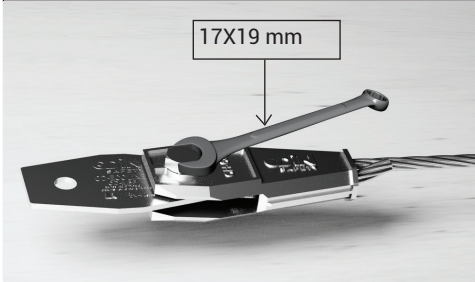
8.

Installation

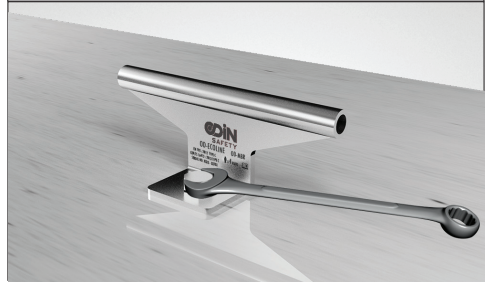
OD-ECOLINE (Horizontal LifeLine) must be installed by Odin Safety teams or personnel trained and authorized by Odin Safety. The Responsibility of the whole system belongs to the company that performed the installation. See the installation details in section 8.1 and the schematic installation plan in Annex A.

8.1 OD-ECOLINE Installation

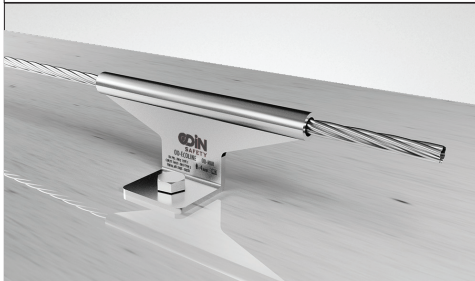
OD-MBP Main Anchor
Stainless Steel



OD-MBR Intermediate Anchor(Roof, Wall)
Stainless Steel



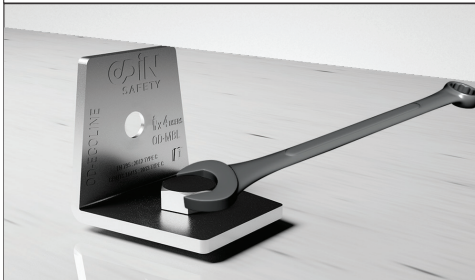
OD-MBR Intermediate Anchor (Roof, Wall)
Stainless Steel



OD-MBR + OD-MBL Intermediate Anchor for Overhead
Stainless Steel



OD-MBL Main Anchor
Stainless Steel



OD-EA Energy Absorber
Stainless Steel



OD-CH8 Rope Holder

Stainless Steel



- » OD-MBP main anchor is mounted to the structure with M12 bolts and/or M12 steel dowels.
- » The OD-MBP main anchor is mounted to the OD-CH8 rope holder with M12 bolt.
- » Pass the OD-LLC steel rope through the OD-CH8 rope holder.
- » OD-MBR intermediate anchor is mounted directly to the structure with M12 bolts and / or M12 steel dowels for wall and floor position.
- » If OD-MBR is used for overhead position, OD-MBR intermediate anchor is mounted firstly to the OD-MBL with M12 bolts and / or M12 steel dowels and OD-MBL is mounted to the structure with M12 bolts and / or M12 steel dowels.
- » Pass the OD-LLC steel rope through the OD-MBR intermediate anchor pipe.
- » The OD-MBL main anchor is mounted to the structure with M12 bolts and/or M12 steel dowels.
- » Attach OD-EA energy absorber to the OD-MBL main anchor with M12 bolt.
- » Attach the OD-CH8 rope holder to the OD-EA energy absorber with M12 bolt.
- » Thread the OD-LLC steel rope through the OD-CH8 rope holder.
- » Attach the OD-eGLD-C or OD-eGLD-S slider to the system.
- » Attach the carabiner to the OD-eGLD-C or OD-eGLD-S glider.



Warning: All nuts used for installation must be locked nut.

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-ECOLINE must be used only by or under the supervision of trained personnel.
- » Misuse or improper use can result in serious injury and fatal accidents.
- » OD-ECOLINE is a fixed system and can be used as only a personal fall arrest system.
- » 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.



- » It is not suitable to use for lifting and carrying materials.
- » Horizontal Life Line must not be used outside of its design purpose.
- » Horizontal LifeLines are never be used for rope access and/or rescue.
- » Horizontal Life Line 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). The potential dangers that arise when type C anchor devices are combined with retractable type fall arresters (EN 360) or guided type fall arresters including a flexible anchor line (EN 353-2), which have not been tested together.
- » This product should be used at temperatures between a minimum of -30 ° C and a maximum of + 70 °
- » 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.
- » If any steps are not clear during the installation phase, get in touch with the manufacturer.

B. Using OD-ECOLINE Horizontal Lifeline (EN 795/C:2012, CEN/TS 16415/C:2013)

- » OD-ECOLINE has been tested and approved by the ISO 17025 accredited laboratory QUINTN CERTIFICAITONS, to use by 4 people at the same time.
- » Breaking strength of the structure where the lifeline will be installed should be reviewed by the Dynamic Performance Values.
- » Maximum loads(s) that could be transmitted in service from the anchor device to the structure and the directions of loading is relevant to the type of fixing and structure.
- » Personnel who will use the system must check the Warning Label whether the system is appropriate to 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.
- » When OD-ECOLINE is used as part of a fall arrest system, the maximum impact force on the user must be restricted to 6kN. To do so the connection equipment used between the safety harness and lifeline must be chosen correctly.
- » The connection equipment that the user will use between the lifeline and the full body harness must meet the required standards.
- » The maximum angle allowed from the horizontal for the anchor device must be 15 ° degree.
- » The connection equipment must be directly connected to the OD-eGLD Glider located on the lifeline and the anchor point marked with A on your full body harness.
- » For Type C anchor devices the minimum breaking strength of the flexible anchor line must be 38kN.

C. Using Indicator

The tension of the system must be checked over the indicator as 1 kN (100 Kg) before each use since the tension of the LifeLine may vary due to weather conditions.

D. Supplementary Information Regarding standard; EN365

D1. 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.

D2. 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.
- » Users should be medically fit to work at heights.

E. Product Control and Validation

E1. Before Each Use

The system 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 system components
- » There is any corrosion on system components
- » There are any chemicals exposed with the system components

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.

E2. During Each Use

When using the horizontal lifeline with another system, make sure that the whole system is correctly positioned and compatible with each other.

F. ODİN SAFETY General Information

F1. 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. ODİN SAFETY is not responsible for the use of the product that does not have annual periodic control.

- » Horizontal Life Line is made of stainless steel materials.
- » The materials are 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.
- » Product efficiency, durability and safety of users depends on regular periodic inspections. Check the legibility of the product markings.
- » 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 have been used to arrest a fall and not used again until confirmed in writing by a competent person that it is acceptable to do.

F2. 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.

F3. Maintenance

It can be given if the periodic controls of the system are carried out by the manufacturer or persons authorized by the manufacturer. For more information, you can contact us at info@odinsafety.com.tr

F4. 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.

F5. 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.

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

F6. 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.
- » Cutting the steel rope.
- » 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.

G. Certification

This product is certified by QUINTIN CERTIFICATIONS NB 2927 for EN 795:2012 TYPE C , CEN/TS 16415: 2013 TYPE C standard.



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



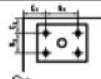
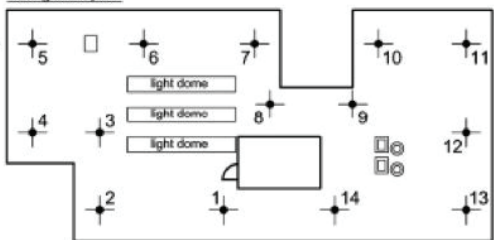
Warning: Please read the usage instructions carefully before using. The user manual must be published in its own language in each country.



Warning: it is 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: _____		Order no.: _____	
Remarks: _____		Building type: _____	
		Roof shape: _____	
		Anchor device: _____	
Customer			
Name: _____		Contact person: _____	
Address: _____		Phone: _____	
Installer			
Name: _____		Chief installer: _____	
Address: _____		Phone: _____	
Anchor device			
Manufacturer: _____			
Model/type identification: _____			
Building component			
Component 1: e.g. concrete ceiling		Minimum thickness: e.g. 250mm	
Component 2: e.g. concrete column		Minimum thickness: e.g. 500mm	
Building mat: e.g. reinforced concrete		Quality: e.g. min. C25/30	
Fixings/Dowels		Manufacturer:	
☐ Fixing data data not required if through fixed		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: _____ Testing device: _____ ☐ Hammer ☐ Drill-hole cleaning ☐ Impact System ☐ yes ☐ no ☐ Rotary ☐ Torque controlled spanner ☐ Fixing test device ☐ wet ☐ 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 Endüstriyel Ürünler A. Ş.

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Depot: Tatlıkuyu Mahallesi 1302/3 Sokak No:23/B Gebze / KOCAELİ

Company: Düzce 1. Organize Sanayi Bölgesi Düzce

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