



DIASAFE®

FALL PROTECTION SYSTEMS

DiaSafe® Glide

Maximum freedom of movement
with optimum safety





PRODUCT DESCRIPTION

DiaSafe® Glide System is an anchoring device secured by roof layers which ensures the safety of any personnel working at heights, while providing unhindered movement along the safety cable. The system uses the ballast provided by the gravel or the green roof growing media to provide the counterweight for a fall incident, avoiding any need for penetration of the roof structure. The specially developed components of the system allow the DiaGlider-Fix to click on/off at any point on the line, and easily slide through the heads of the anchoring posts, and along the safety cable.

LEGAL REQUIREMENTS

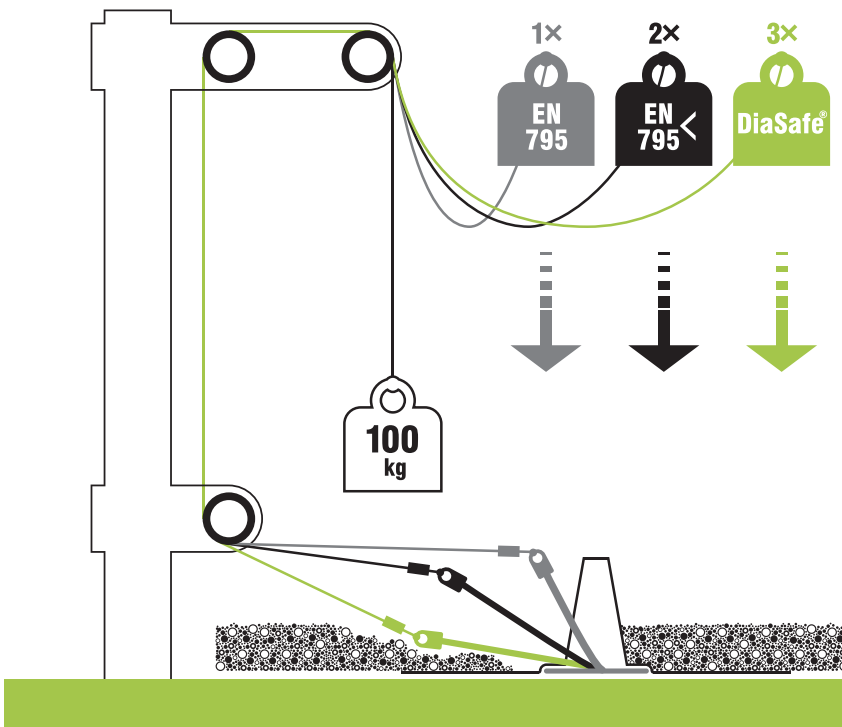
Anyone working at heights needs to be secured against a fall. This protection is the responsibility of the employer, and/or the owner of the premises, and it is also the architect's responsibility, in designing the building, to meet the relevant regulations. All DiaSafe® systems comply with the latest EU standards. To achieve these standards, hundreds of fall tests were conducted on DiaSafe® systems, in the product development and testing centre, under the supervision of independent testing organisations.

QUALITY ASSURANCE

The DiaSafe® Systems have been tested by TÜV Austria, Europe's leading safety validation organisation. The manufacturer's ISO 9001 and 14001 certifications also indicate the highest quality in production, from the initial selection of components through to the final quality control.

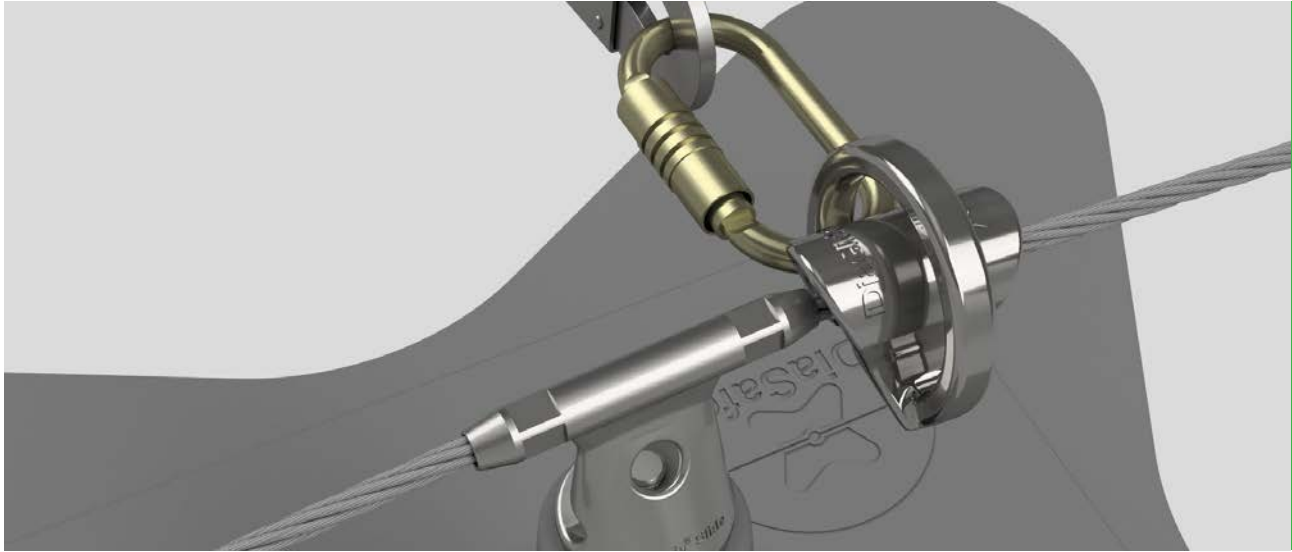
LEGAL BACKGROUND

In the DiaSafe® Glide Technical Manual.

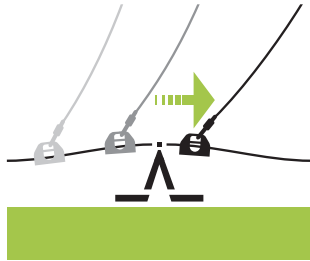


Triple tested. Triple safety.



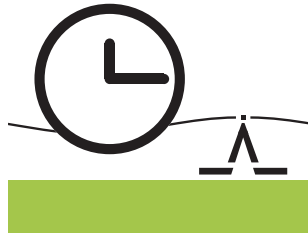


BENEFITS



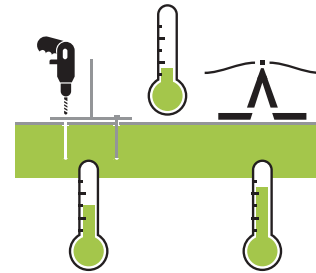
TRAVERSABLE SYSTEM

Users have maximum freedom of movement, as the DiaGlider-Fix slides freely along the cables and anchor posts without the need to detach and reattach.



FAST AND EASY INSTALLATION

The system consists of a minimal number of components. With appropriate technical skills, it can be installed in a few minutes.



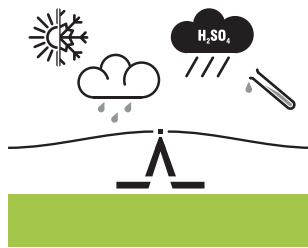
NO THERMAL BRIDGES

Thanks to its special design, there is no thermal bridge between the structure of the building and the DiaSafe® system, thus saving energy and avoiding mould.



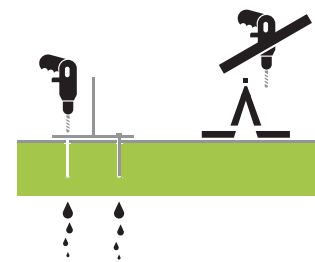
SUITABLE FOR MOST TYPES OF FLAT ROOFS

The DiaSafe® systems can be installed on warm or inverted flat roofs, made out of any structural material (concrete, steel, wood, etc.) and covered with any water insulation membrane (bituminous, PVC, EPDM, etc.).



INDUSTRIAL AND COASTAL REGIONS

All components of the DiaSafe® Glide systems are made of materials resistant to acid environments primarily found in industrial areas and salt corrosion in coastal regions.



INTACT WATERPROOFING LAYER

The DiaSafe® systems do not require any mechanical attachment to the roof structure, so the waterproofing and insulation remains intact.

SAFETY ON THE ROOF



5° max



PERMITTED INCLINATION

The system can be installed on flat at roofs with up to 5° incline.



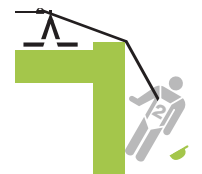
REMODELLING

The DiaSafe® Glide is an ideal solution for remodelling, as it does not alter the existing structure of the building.



RESTRAINT FUNCTION

Used as a fall restraint system, the protected worker attached cannot reach the very edge of the roof. The lanyard length is shorter than the distance between the anchoring point and the edge of the roof.



FALL ARREST FUNCTION

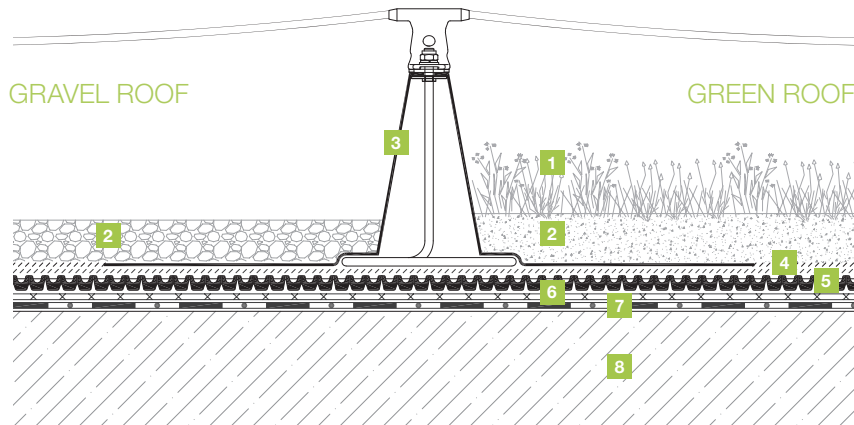
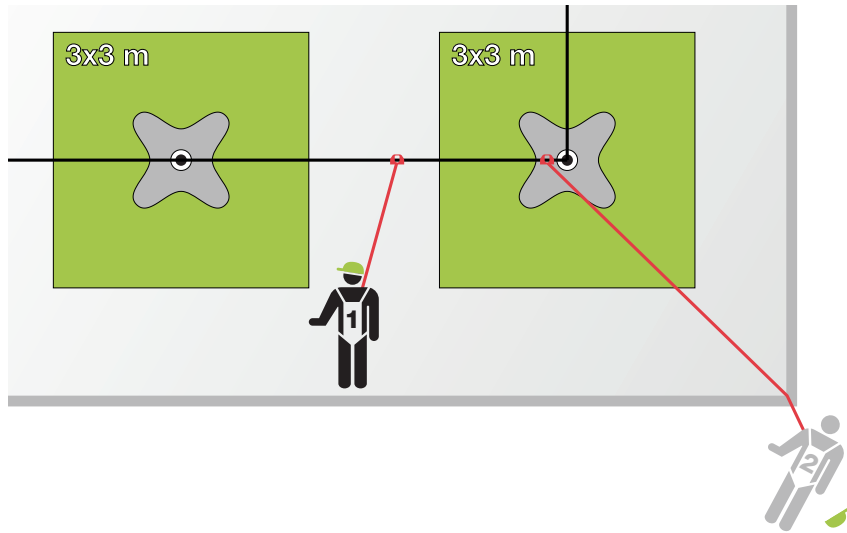
Used as a fall arrest system, the protected worker has maximum freedom of movement into the corners and even over the edge of the roof, as the lanyard length is longer than the distance between the anchoring point and the edge of the roof. If a fall occurs, the system dampens the arrest and holds the person securely.

DIASAFE® GLIDE SYSTEM

With standard 3 × 3 m damping mat with a ballast weight of 80 kg/m² securely anchors two persons. Two persons may only be anchored to the system in the following scenarios:

1. Both persons use the restraint function.
2. One person uses the restraint function while the other person uses the fall arrest function. (see figure below)

The length of the lanyard is adjusted according to the above mentioned scenarios.



LAYER BUILD-UP

- 1 Vegetation
- 2 Ballasting material
- 3 DiaSafe® damping plate
- 4 Filter geotextile
- 5 Drainage and water retention board
- 6 Protection geotextile
- 7 Root resistant layer
- 8 Existing build-up (roof deck)

SWAGING MACHINE

The DiaSafe® Glide system has been tested using REMS radial press tools, therefore we recommend using these machines or machines declared equivalent by the manufacturer. T12 pressing jaws must be used for securing any joints or terminations on the cable.



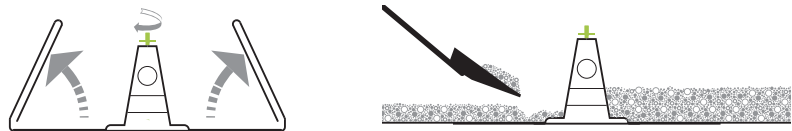
TOOLSET



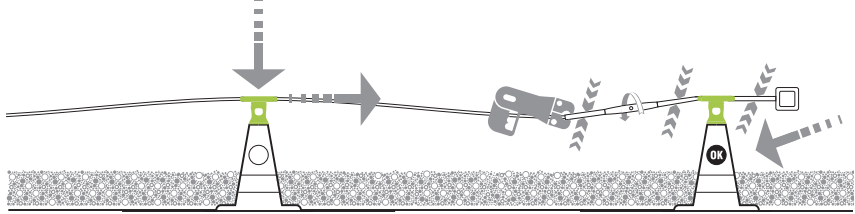
1 After installing the geotextile protection layer, position the system posts at the exact locations indicated in the installation plan. Place the damping plate with integrated damping mat onto the posts.



2 Screw the upper part of the post then unfold the damping mat without creases. Spread the ballasting weight evenly, making sure that the weight is sufficient for the surface area of the given DiaSafe® system.



3 Mount the tubular-shaped anchoring head onto the posts. After placing the cable into the tube it must be swaged at the given positions according to the installation instructions. Then attach the control label and if you are the certified installer, the circular validation sticker onto the cone.



4 After installation, use the DIADEM® Online website (reg.diadem.com) or the DS Service Book to document the system!



TECHNICAL MANUAL

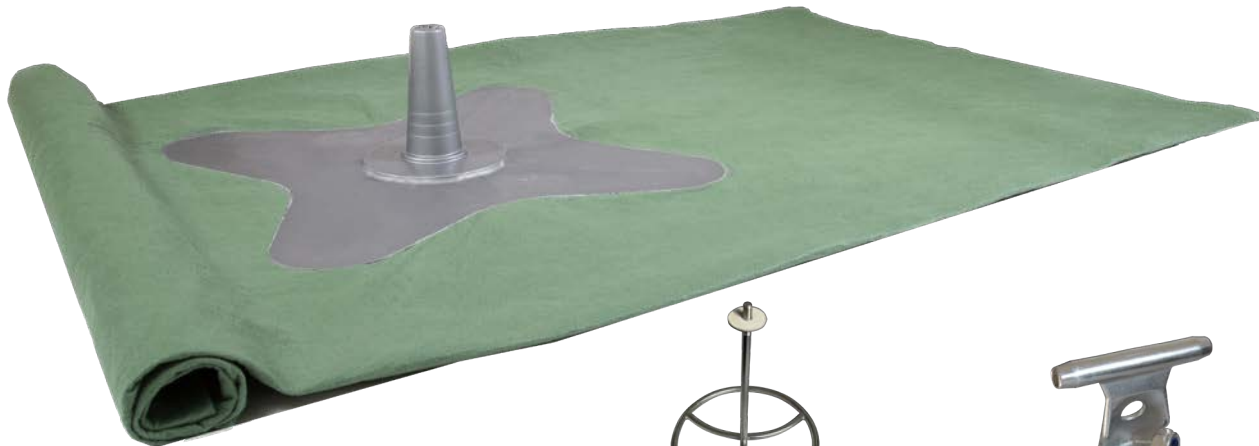
A safe and correct installation must be based on the Technical Manual. This brochure does not substitute or replace the technical manual.

COMPONENTS



DIAGLIDER-FIX

Manufactured from high-strength alloy, the DiaGlider-Fix offers unhindered movement along the system.



DAMPING PLATE WITH INTEGRATED DAMPING MAT

The damping plate, made from a fibre-glass and steel reinforced polyester, is engineered in every detail. The polypropylene damping mat is integrated into the amoeba-shaped damping plate, with a supporting cone in the middle.

DIASAFE® GLIDE ANCHOR POST

Stainless steel console, shaped and welded from a circular-sectioned steel rod. The standard height is 30 cm. Custom heights up to 140cm may be ordered.



GLIDER POST HEAD

Designed to fit over the anchor post and accommodate the anchoring cable in such way that the DiaGlider-Fix will run through it. Cast from stainless steel.



SAFETY ON THE ROOF



STAINLESS STEEL ANCHORING WIRE

The heavy-duty stainless steel safety cable connects the posts and creates a flexible line-anchoring system. DiaGlider-Fix is connected to this safety cable.



SWAGED SQUARE END

The swaged square end ensures that the DiaGlider-Fix may slightly overrun the post and will prevent it from sliding off the line.



SWAGED TURN BUCKLE

This swageable turn buckle can also be post-installed and is intended to ensure correct tension, while allowing the DiaGlider-Fix to slide over it.



Need help with DiaSafe® planning?
Contact: info@diadem.com

PLANNING PRINCIPLES

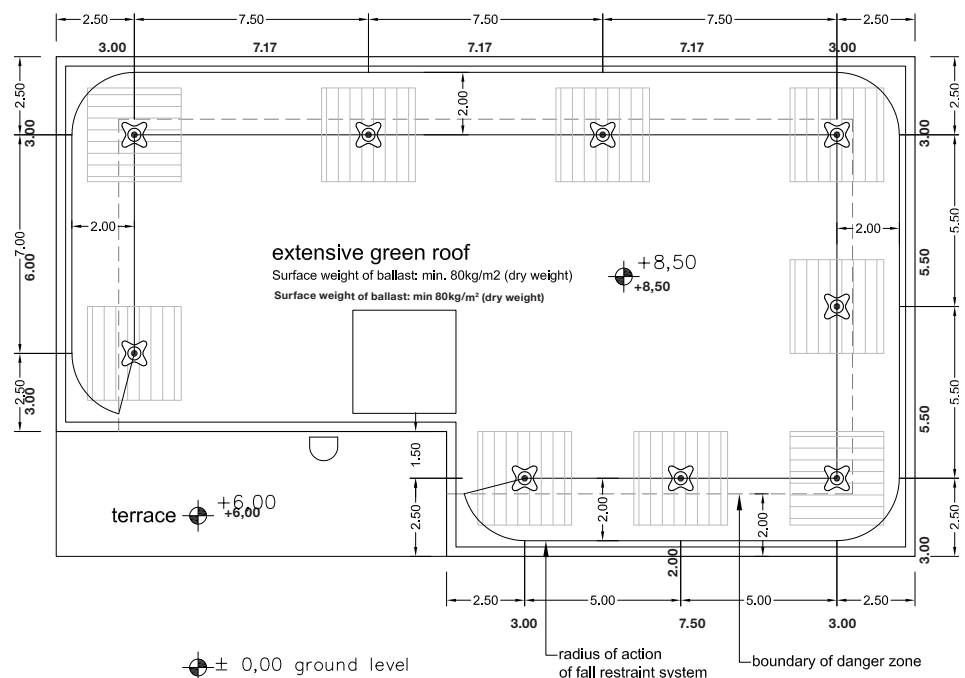
The installation plan for the fall protection system can be prepared by the manufacturer, or by a DiaSafe®-certified professional, taking building characteristics and local conditions into consideration. Wherever possible, the plan should specify fall restraint systems to ensure that the user cannot move beyond the safe area. Should building plans change during the design process or installation phase, the DiaSafe®-certified professional must approve the change. Among other key details, the plan must include the following information:

- the number of permitted users
- the permitted length of leash of the PPE
- the exact placement of the system posts and components
- the required ballast

KEY INFORMATION NEEDED IN ORDER TO PROVIDE PLANS

- 1 Roof plan with all the height measurements of the different rooftop surfaces, including all levels (i.e. rooftops, terraces, ground floor, parapet wall, superstructures)
- 2 Elevations and section drawings indicating the height levels
3. Inclination of the roof
4. Placement of superstructures or elements on the roof that were installed later
5. Layer build-up of the roofs,
6. Material of the ballast (e.g. substrate, gravel, paving)
7. A dwg-formatted file of the drawings (which will speed up the planning process), or a pdf file, if a dwg is unavailable.

DiaSafe® Installation Plan





DIADEM® Online
reg.diadem.com 

Create DIADEM® Fall Protection System Installation Documentation on Your Phone or Computer - Easy & Fast!

DIADEM® Online generates a signature-validated document (photos, blueprints, system information etc.) in PDF format that can be digitally stored, instantly emailed and printed.

Registration and system information is available at any time, from anywhere, and relevant information is available for annual inspections.

The QR code at the anchor points provides information on usability.

DOWNLOAD

DIADEM® provides free online resource with up-to-date DiaSafe® technical manuals and all handouts, documents and templates required for the professional planning, construction, use and maintenance of the system. To install the system efficiently it is highly recommended that installers read and thoroughly understand the technical manual.

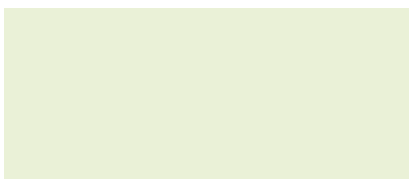
SYSTEM INSPECTION, REGISTRATION AND MONITORING

Standards EN795:2012 and EN365:2004, in addition to work safety regulations, require inspections to be carried out on fall arrest systems and personal protective equipment every 12 months, in order to guarantee the continued safety of these devices. Annual technical inspections can only be carried out by an approved expert or professional service technician. DiaSafe® Online offers an automatic system-monitoring service, which provides reminders 2 months and 1 month before annual inspections are due.

SPECIFICATION

Permanent anchor device secured by roof layers, enables unhindered and continuous movement for the DiaGliders without the need to detach and reattach, as fall arrest and fall restraint system installed without penetrating the water insulation, with a stainless steel anchoring wire (8mm) parallel with the roof edge and with DiaGlider-Fix permanent traveller device (separately available), for two users simultaneously, as fall restraint system for one user and as fall arrest system for the other user, according to the standards EN 795:2012 class C and CEN/TS 16415:2013 certified, for flat roofs with a slope up to 5°, incl. all accessories made of stainless steel resistant to acid environments and salt air in coastal regions, with DS amoeba-damping plate with laminated ballasting mat in signal green colour, and a fibreglass reinforced support cone, with marking lines for the min. ballasting height, supplied as fully functional system ready for immediate professional installation according to manufacturer's instructions, to the technical building regulations and to the approved implementation plan, assembled according to guidelines provided by the manufacturer with ballast material in dry conditions at 80 kg/m² distributed over the whole ballasting surface.

DISTRIBUTOR



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DIADEM® offers training for candidates to take the manufacturer's exam and achieve certification which authorises them to install and maintain and/or inspect DiaSafe® Safety Systems. Installation, approval and inspection must be carried out by technicians authorised by the relevant Standardisation Committee, Notified Bodies or the manufacturer of DiaSafe® systems.

OUR EXPERTS ARE HAPPY TO ANSWER ANY QUESTIONS



Further Information:
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