

When people are working at height, it is good to know they are being looked after by experts with a wealth of specialist knowledge and practical experience. Fall Angel have taken their expertise in the supply, installation and testing of Fall Protection Systems and equipment to new heights, so however high you need to go, you will be in safe hands.

Fall Angel is fully accredited for the QUENSH system, including:

- > **BS EN ISO 9001**
Quality Management
- > **BS EN ISO 14001**
Environmental Management
- > **BS OHSAS 18001** Occupational Health and Safety Management

The Roof Angel Horizontal Lifeline is patent protected by GB 1216419.0 and fully meets the requirements of:

- > **BS EN 795:2012**
Protection against falls from a height - Anchor Devices
- > **BS 7883:2005**
Code of practice for the design, selection, installation, use and maintenance of Anchor Devices conforming to BS EN 795

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Reaching new heights in Fall Protection Solutions.

About Fall Angel

PROTECTION SYSTEMS

How high is too high? For us, raising the levels of safety and protection offered to those working at height knows no limits. We haven't just watched our industry evolve; we've been at the heart of those developments. We are already experts in the supply, installation and testing of Fall Protection Solutions that meet any working-at-height challenge. So we set ourselves a new challenge: to design and manufacture our own long-lasting, flexible, re-usable, cost-effective Fall Arrest and Fall Restraint Systems. One that meets your needs today yet is ready for the regulatory changes and architectural innovations tomorrow will bring.

Fall Angel is a business that combines hands-on, practical experience of working at height with an expert knowledge and insight of your long-term goals and needs.

We are one of the few companies able to offer a complete range of Fall Protection solutions from a single source. We are experts in Personal Protective Equipment for use with Fall Arrest Systems and we are proud to introduce our new and unique Fall Arrest and Fall Restraint System to you.

The Roof Angel Horizontal Lifeline System from Fall Angel combines a unique patented design with advanced force-absorption technology and a thorough understanding of your need to achieve cost efficiencies with absolutely no compromise on safety.

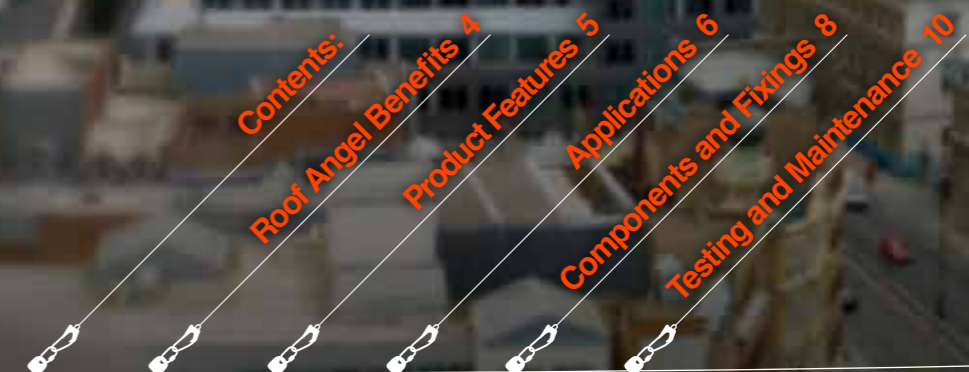
When it comes to new heights, we believe no challenge is too great to overcome.

Our Heritage

Fall Angel, the Fall Protection Specialist found immediate success as a small professional company serving main contractors, architects and private building landlords. Year on year growth saw the client portfolio expand to include the Building and Construction sectors and develop its expertise from a focus on installation, testing and maintenance of systems to become a major provider of all types of Fall Protection and Personal Protective Equipment to all industries with height safety objectives.

Today Fall Angel continues to expand upon its position as an industry-leader and it is on this solid foundation that Fall Angel is built.

Utilising a combined 50 years of knowledge, experience, insight and innovation, Fall Angel has a clear commitment to develop the pioneering Fall Protection products that will meet the evolving needs of every sector.



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> Roof Angel Benefits

The Roof Angel Horizontal Lifeline System by Fall Angel provides users with a total fall protection solution through continuous attachment whilst negotiating intermediate points along the system. Users can detach and re-attach at any point. Roof Angel is designed so that it is able to accommodate corners and various building shapes; so that it is aesthetically flexible, with low profile posts and comprehensive fixing options suitable for all roof types including standing seam, composite, built up, secret fix and membrane roofs; and so that it conforms to EN795 (2012) Class A2 & C.

The Roof Angel Horizontal Lifeline System combines the high specification you expect with additional cost-effective features for lasting added-value.

> **Completely corrosion-free:**
The Roof Angel unique patented design incorporates shock absorbing polyurethane, the single most versatile material available to the industrial world. All components are manufactured from Grades 304 or 316 stainless steel, polyurethane and aluminium, giving you a corrosion-free fall protection system that will stand the test of time.

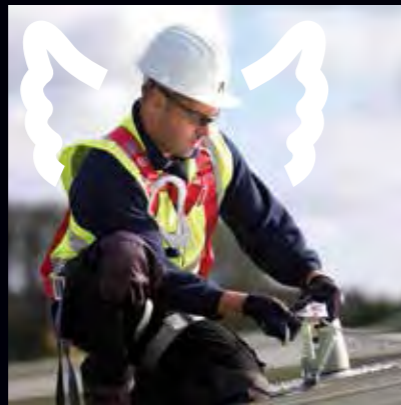
> **Stock reducing flexibility:**
Roof Angel is designed with fewer components than competitor products; for example our two multi-drilled stackable base plate sizes offer flexibility of use, whilst simplifying the system specification and minimising your stock requirements.

> **Space saving and transport cost efficient:**
The separate base plates and support posts of Roof Angel are designed to be stackable, allowing you to reduce your stock space and transport costs.

> **Replacement following deployment:**
The Roof Angel post can be replaced if damaged or deployed without the need to remove or replace the base plate, therefore avoiding costly roof disturbances or repairs. What's more, the efficient in-built absorber takes away the need for expensive replacements following deployment, which isn't a feature of other 'tip over' or constant force style posts. The shock-absorbing materials also minimise end loads to less than 10kN.

> **Competitively priced for a competitive market:**
We understand your need to drive cost-efficiencies with absolutely no compromise on safety. That's why we've utilised all our industry knowledge and expertise to develop a high spec product, manufactured using the best quality materials, designed for longevity and featuring the advanced technology you expect - all at the incredibly competitive price you want.

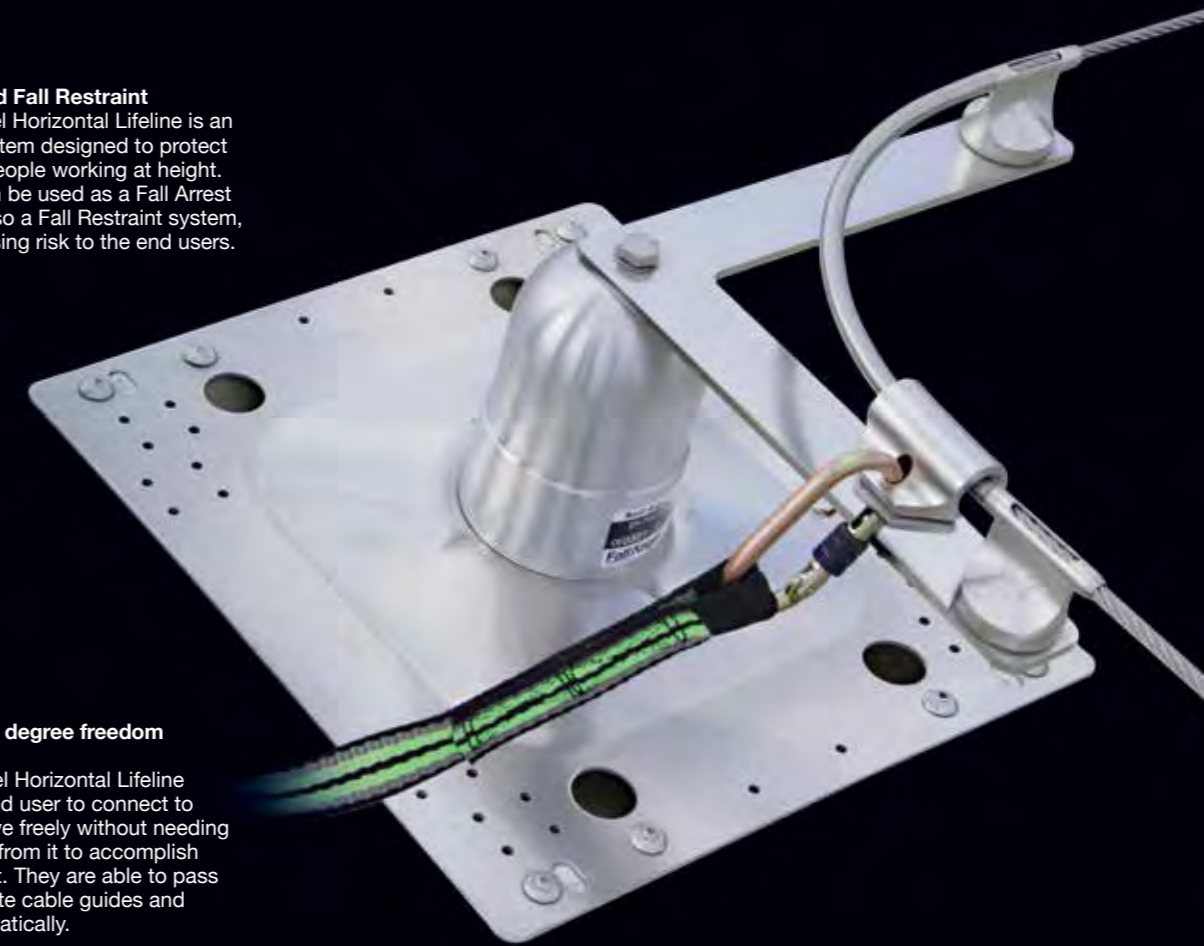
< The Roof Angel Horizontal Lifeline System by Fall Angel provides users with a total fall protection solution through continuous attachment whilst negotiating intermediate points along the system – users can detach and re-attach at any point.



The Roof Angel Horizontal Lifeline has all the features you and your workforce expect, to ensure that safety is paramount when working at height:



> **Fall Arrest and Fall Restraint**
The Roof Angel Horizontal Lifeline is an anchorage system designed to protect one or more people working at height. The lifeline can be used as a Fall Arrest system and also a Fall Restraint system, further minimising risk to the end users.



> **Complete 360 degree freedom of movement**
The Roof Angel Horizontal Lifeline enables the end user to connect to the line to move freely without needing to disconnect from it to accomplish any movement. They are able to pass the intermediate cable guides and corners automatically.



> **Permanently attached**
Roof Angel is permanently attached to the structure, can be replaced if deployed without removal from the roof and is corrosion-free, offering value-for-money longevity.



> **No compromise of roof integrity**
Roof Angel is a permanent anchorage system suitable for all roof types. Once installed, Roof Angel will protect end users for years to come with no compromise to the roof integrity. Roof Angel base plates need not be removed following deployment.



> **8mm cable-based fall arrest anchorage system**
Incorporating force absorption technology to minimise the loading passed to the structure in the event of a fall.



> **Fully tested and certified**
Roof Angel complies with all current European standards and requirements. It is independently tested by SATRA and is certified to EN795 (2012) class A & C. System critical components are serial numbered for full traceability.



> **Computer calculation package**
Our advanced computer calculation package guarantees that all installations are within the safe working limits of Roof Angel. This bespoke calculation software ensures the most effective tailored installation options.



> **Full technical support**
We have devised and can deliver a comprehensive programme of Training Courses for your team. Site specific layout drawings can be provided as a complete package if required.

Applications

With the Roof Angel Horizontal Lifeline we have designed a system that fixes permanently to the roof structure, allowing for all types of work at height to be carried out in complete safety. Roof Angel is ideal for use in every sector with height safety objectives. Its advanced technology combined with a focus on delivering longevity of use makes Roof Angel the most cost effective solution for all your fall protection needs.

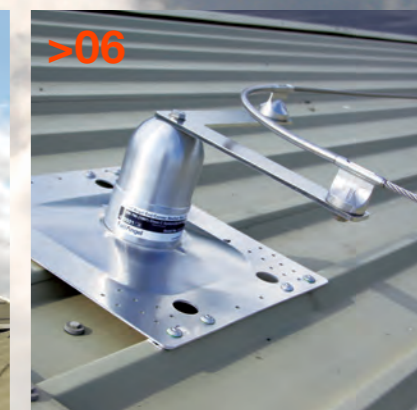
Designed without compromise...

The design of the Roof Angel anchors combined with its superior shock-absorbing materials means that the system can be top-fixed to most modern roof constructions. It operates horizontally and along inclines and can easily accommodate two simultaneous users. There is no compromise to the integrity of the roof and, in the event of a fall, there is minimal damage to the roof sheets as all loads generated on the system are greatly reduced thanks to our unique design.

The Roof Angel Horizontal Lifeline is suitable for:

- > **Standing seam roofs**
Utilising the S5 clamp, there is no need for roof penetration.
- > **Membrane roofs**
Roof Angel can be fitted on all the major membrane roofing systems including single-ply and bituminous on steel, concrete and timber decks. The base plates are supplied with TPO or PVC coatings.
- > **Composite roofs**
Roof Angel can be fitted on all the major composite roofing systems. The posts are fixed to the roof sheet using structural rivets.

Roof Angel is ideal for use in every sector with height safety objectives.

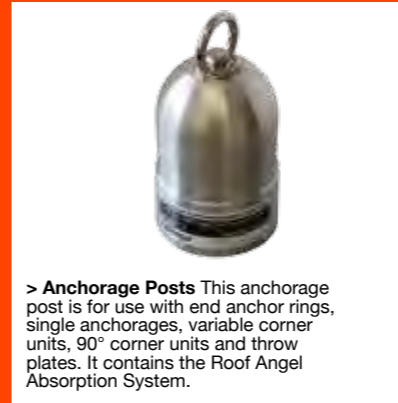


- >01 Quick and easy connection to the system
- >02 No compromise of roof integrity
- >03 Easily able to pass over intermediate and corner cable guides
- >04 Can be used on inclines
- >05 Safe for multiple users
- >06 Able to accommodate corners and varying building shapes
- >07 Freedom to do your job
- >08 Low profile, unobtrusive design
- >09 Freedom of movement
- >10 Fully tested and certified
- >11 Corrosion resistant components

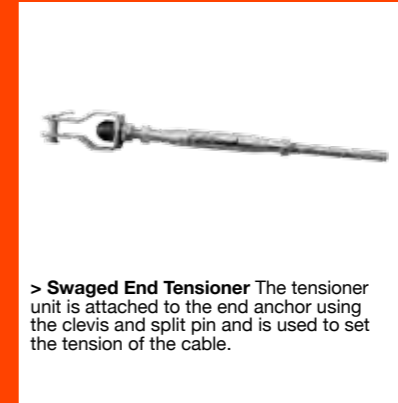


Components and Fixings:

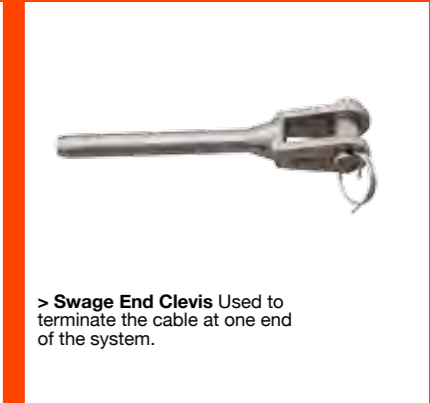
Roof Angel has been designed to suit all modern roof types and is supplied with the appropriate fixing for each installation. We will be happy to discuss your requirements in-depth and advise on the correct components and fixings for your project specific needs.



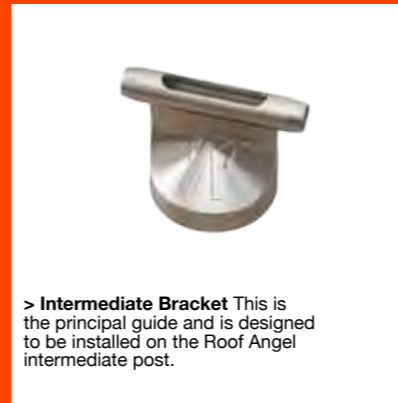
> **Anchorage Posts** This anchorage post is for use with end anchor rings, single anchorages, variable corner units, 90° corner units and throw plates. It contains the Roof Angel Absorption System.



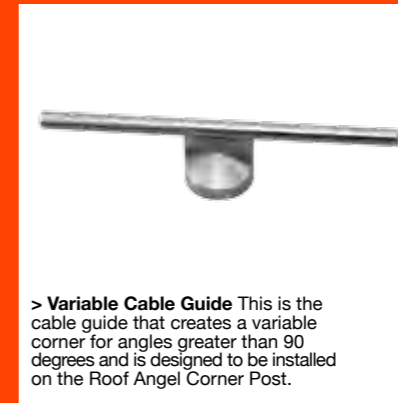
> **Swaged End Tensioner** The tensioner unit is attached to the end anchor using the clevis and split pin and is used to set the tension of the cable.



> **Swage End Clevis** Used to terminate the cable at one end of the system.



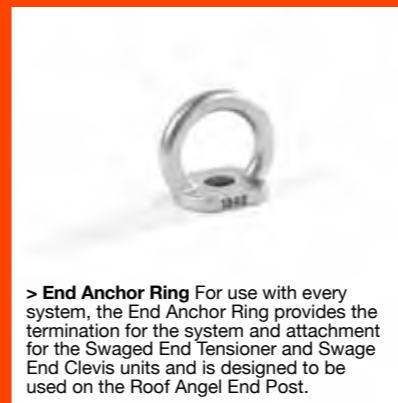
> **Intermediate Bracket** This is the principal guide and is designed to be installed on the Roof Angel intermediate post.



> **Variable Cable Guide** This is the cable guide that creates a variable corner for angles greater than 90 degrees and is designed to be installed on the Roof Angel Corner Post.



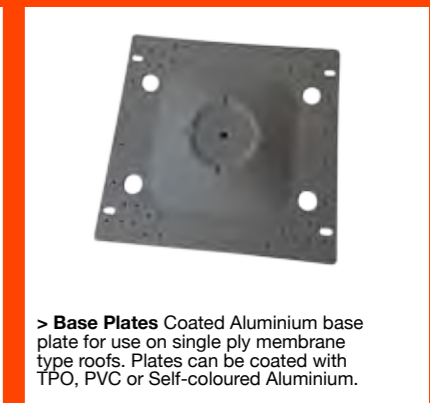
> **90° Corner Unit** The 90° corner unit is designed to turn the direction of the cable through 90° horizontally and is for installation on a Roof Angel corner post.



> **End Anchor Ring** For use with every system, the End Anchor Ring provides the termination for the system and attachment for the Swaged End Tensioner and Swage End Clevis units and is designed to be used on the Roof Angel End Post.



> **Base Plate** Multi drilled base plate for use with 8mm Bulb-tite rivets for trapezoidal roofs and S-Type clamps for use on standing seam roofs.



> **Base Plates** Coated Aluminium base plate for use on single ply membrane type roofs. Plates can be coated with TPO, PVC or Self-coloured Aluminium.



> **Toggle Fixing** Used for securing the base plate to a single ply/metal decked membrane type roofing system.



> **Shuttle** This device is the only approved means of connection to the cable and is used with a variety of Lanyards with integral shock absorbers. In use the shuttle trails the user, and glides along the system. It automatically corrects itself at an intermediate bracket to permit free travel for the user. It will always maintain full positive contact with the system.

> **Additional Equipment**

Fall Angel provides the full range of Personal Protective Equipment for every need and is complementary to Roof Angel Systems. We are able to offer a complete range of Fall Protection and PPE solutions from

a single source and at an extremely competitive price.

- > **Guardrails**
- > **Lifelines**
- > **Mobile Man Anchors**
- > **Non Slip Walkways, Ladders and Steps.**

> **Rescue & Anchorage Systems**

- > **Ladder Restraints**
- > **Abseil Systems**
- > **Fall Protection Anchor Points**
- > **Overhead Rail Systems**
- > **Lanyards**
- > **Harnesses**

Testing & Maintenance

The Roof Angel Horizontal Lifeline has been independently tested by the SATRA Technology Centre and fully meets the requirements of:

> **BS EN 795: 2012**

Protection against falls from a height - Anchor Devices.

> **BS 7883: 2005**

Code of Practice for the design, selection, installation, use and maintenance of Anchor Devices conforming to BS EN 795.

Fall Angel are experts in Fall Protection Testing and Maintenance and can advise you on the most appropriate testing schedule for your Fall Protection Systems.

It is a legal requirement that all Fall Protection Systems including Eye Bolts and Single Point Anchors used for the purpose of fall protection, fall arrest & restraint, are tested by a competent person authorised by the manufacturer and carry a test certificate to comply with HSE legislation.

Following initial installation, the system(s) must be annually inspected and tested to ensure it is in a safe working condition in

accordance with section 12 of BS 7883:2005. If the certification for your system(s) does expire, it is your responsibility to ensure that no one is allowed to use the system(s).

Fall Angel will ensure that you meet all the requirements associated with the systems you install and any ancillary equipment you use.

Under the Construction (Design and Management) Regulations 2007 (CDM), every person who can contribute to the health and safety of a construction project, from architects to contractors and supervisors, must ensure the provision of safe systems of work.

Using a fixed Fall Arrest or Fall Restraint System provides a permanent and simple to use Safety System that is unobtrusive, maintains architectural integrity and is ready to use whenever work at height is required. Fall Angel Protection Systems meet stringent standards required by law to ensure that the safety of all users is preserved.

Roof Angel Intermediate Anchor
RA-1006

BS EN 795 (2012) Class C System
Patent Pending