



Aviator®

A PERMANENT SAFETY LINE
FOR WORKING AT HEIGHT



SAYFA
S Y S T E M S U K


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SAFETY LINES

Whatever type of roof design – from composite panel sheets to flat membrane roof – there will be a need to safely access all areas of the roof both for cleaning and for regular maintenance tasks. A well designed static safety line system ensures that all these tasks, from simple window cleaning through to air conditioning maintenance, are carried out in total security. With versatility very much to the fore, Sayfa's Aviator concept offers the ideal solution.

The system consists of brackets that are adapted to suit both the roof type and the work need. These are either stand-alone anchor points or cable attachment points that accept a shuttle – enabling the operative to move safely along the roof line. The cable is securely attached by suaged end terminals. A key feature is a shock absorbing unit - fitted on both ends of a line - as well as the inherent shock absorbing capabilities of the bracket, to protect both worker and the roof in the event of a fall.

Compared with a handrail the Sayfa Aviator system has a very low visual impact and plays an important part in maintaining the visual integrity of the building. Additionally the fixing brackets can be colour-coded to match

the roof finish and also can be PVC or TPO coated, so that roof membranes can be bonded to the post.

ABSEIL POINTS AND RAILS

Specialist Aviator abseil point fixings are provided to match different roof profiles. Single anchor points are fitted in pairs to either the roof or wall.

“With great adaptability in use, the Aviator concept puts safety first for maintenance and cleaning at height.”



The use of an abseil rail system – running along the edge of the building – offers not only unlimited access, but is also a particularly cost-effective way of keeping windows clean, compared with a platform and hoist.

The growing popularity of atria and high ceilinged areas, such as in shopping malls, brings its own challenges for safe maintenance and cleaning. An abseil rail, particularly if let into the ceiling, provides a practical as well as aesthetic solution to this particular problem.

Additionally davit base plates may be fitted and used in conjunction with a removable davit arm.

SAFETY INSPECTION & MAINTENANCE SERVICES

All safety equipment of this nature needs, by law, regular inspection and maintenance. Fixed line fall prevention and fall arrest systems need regular inspection and re-certification every twelve months. All abseil points and rails need inspection and re-certification every 6 months. As well as providing this service for our own products, we are available to carry out inspections of old or out of date systems and to make the necessary recommendations to make sure that your roof meets current safety legislation.





THE AVIATOR RANGE

The full range has solutions for all roof types and every application.

Safety line

A safety line bracket system for installation on all types of roofs, from flat to up to a 45 degree pitch, of all construction types.

The brackets are installed above or below the roof system. Toggles can be used to penetrate a roof membrane, insulation and roof substrate if no access is available underneath the roof. Specialist brackets and clamps can be used on certain roof profiles to prevent penetrating the roof sheet.

The safety line system is designed to operate as a fall restraint or fall arrest system depending on the layout design. All systems have built in shock absorbing units in each bracket and are fitted with an inline shock absorber for added protection. These capabilities when used together with a shock absorbing lanyard, will ensure that no more than 4kN force is exerted on the users at any point in the system. In fall arrest mode, the system can be designed for up to 2 or 3 users at any one time and provide unrestricted access along the full length of the system. Corners and intermediate brackets allow the line shuttle to move smoothly along the full length of the cable between end brackets.

Abseil points

Abseil anchors are designed to be fixed to a structural substrate such as structural steel or concrete to provide suitable rope access connection points. It is essential when designing rope access to ensure at least 2 different connection points are available to connect to at any one time.

There are 2 types of abseil anchors available - abseil brackets and abseil eyebolts. Brackets are supplied in galvanised steel with stainless steel components. Neoprene washers ensure no galvanic reaction can take place. Abseil eyebolts are supplied in stainless steel. Brackets and eyebolts are secured to concrete with resin anchors and to steelwork with stainless steel bolts, washers and vibration proof nuts. When fixing to metal deck or timber deck it may be necessary to provide a backing plate to ensure compliance.

Raptor Rail

Raptor Rail is designed to be fixed to a structural substrate such as structural steel or concrete to provide a continuous rope access connection point. The rail is supplied with a unique wheeled connection point which moves smoothly along the track and around any profiled corners and bends, without the need to disconnect. The Raptor Rail

provides the highest level of safety for all abseil, fall arrest and fall restraint use. Both the track and the connection point are certified for 22kN loads.

For aesthetic purposes the Raptor Rail installation can be let into the ceiling to ensure that the smooth lines of the interior design remain untouched.

Davit base plates and arms

Davit base plates are designed to be permanently fixed to a structural substrate such as structural steel or concrete to provide a suitable connection point for a removable Davit arm. Davit base plates can be supplied to be used in conjunction with separate abseil rope connection points or can be supplied with suitable abseil eyebolt connections already attached to the base.

The Aviator Davit Arm is designed to be removable and to be used together with the permanent Davit base plates. They are designed for lifting and lowering personnel and materials. The hook on the end of the arm allows abseil and lifting ropes to extend over the roof edge or balustrading. The Davit base can also be used to anchor a personnel fall arrest system when the user is being lifted and lowered.

Sayfa personnel can advise you of the most effective system to meet your specific requirements.



UNIQUE TESTING FACILITIES

The Sayfa test facility simulates the forces generated by an operative falling from a roof. It provides both dynamic and static force-testing of roof-mounted safety equipment, including abseil points, davit base plates, and davit arms.

The facility, using a roof set at ground level, can be configured for all common and bespoke roof types, and allows for wide roof overhangs, canopies, and widely spaced beams. It is specifically designed to enable testing to European and British standards.

The testing tower

The drop-tower is high specification and purpose-built. It allows a weight to be dropped from a height of up to 5 metres. Using a calibrated force-meter, specialist software captures test results to one-tenth of a second.

The facility can also easily be configured for static testing.

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SIMS



SAYFA INSPECTION & MAINTENANCE SERVICES

Sayfa Inspection and Maintenance Services (SIMS) is the department within Sayfa Systems UK, dedicated to the upkeep and maintenance of our Aviator and Payload products and to ensure our customers are fully up to date and can meet the statutory requirements of the law.



Aviator safety lines and access points need to be inspected and re-certified annually – by law. Abseil points and rails need similar inspection and recertification every six months.



It is all part of the constant innovation and development of new ideas for safe working at height with which Sayfa Systems has become synonymous. It is part of our commitment to make sure that we are fully abreast of the regulation hierarchy that governs these industries today and can act authoritatively in the inspection and safety certification that we offer to our customers. We strive continuously to raise standards – now combining regulatory roof inspection with a first-class and competitive roof safety system maintenance service.





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