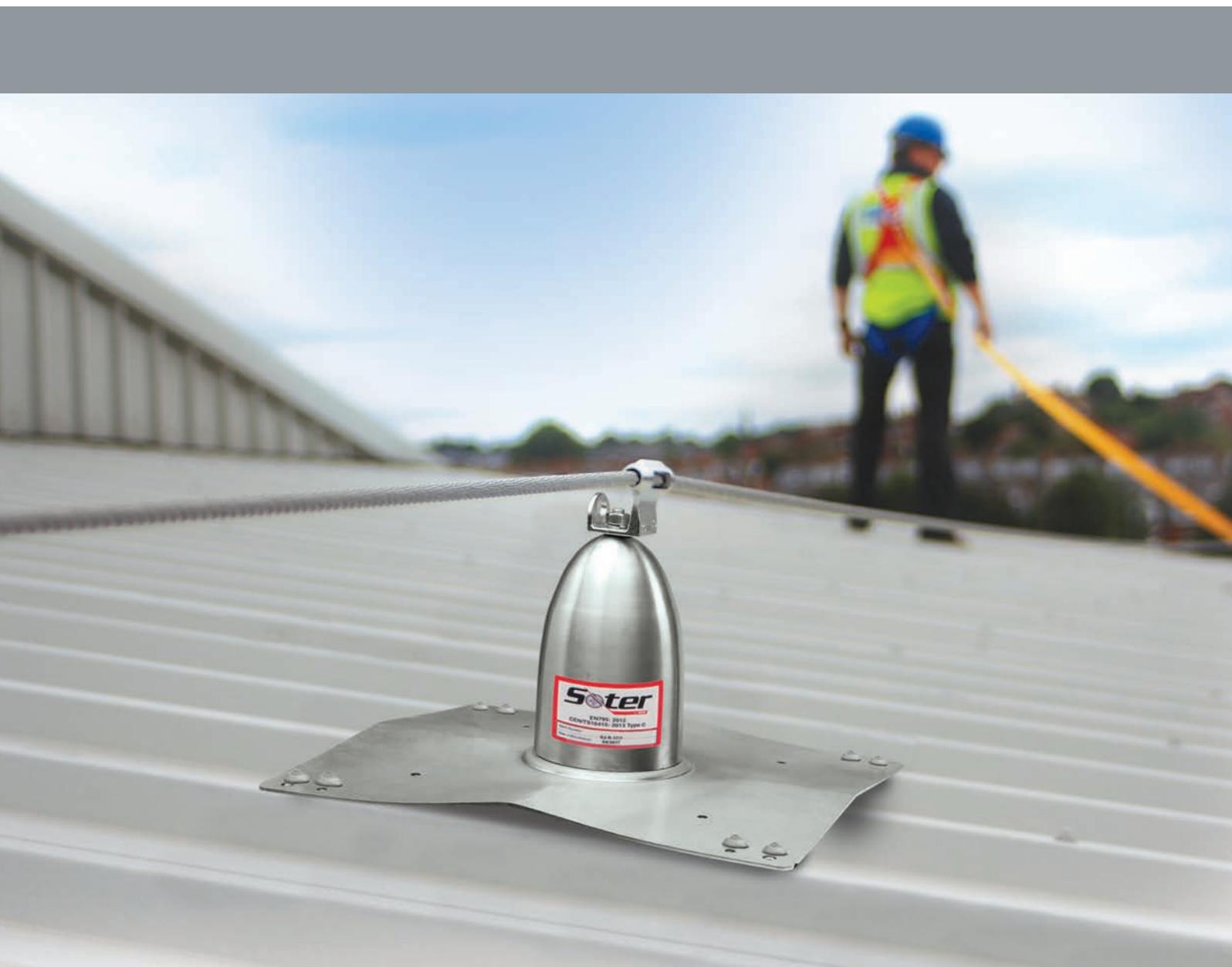


Fall protection systems for construction
Understanding application to maximise performance

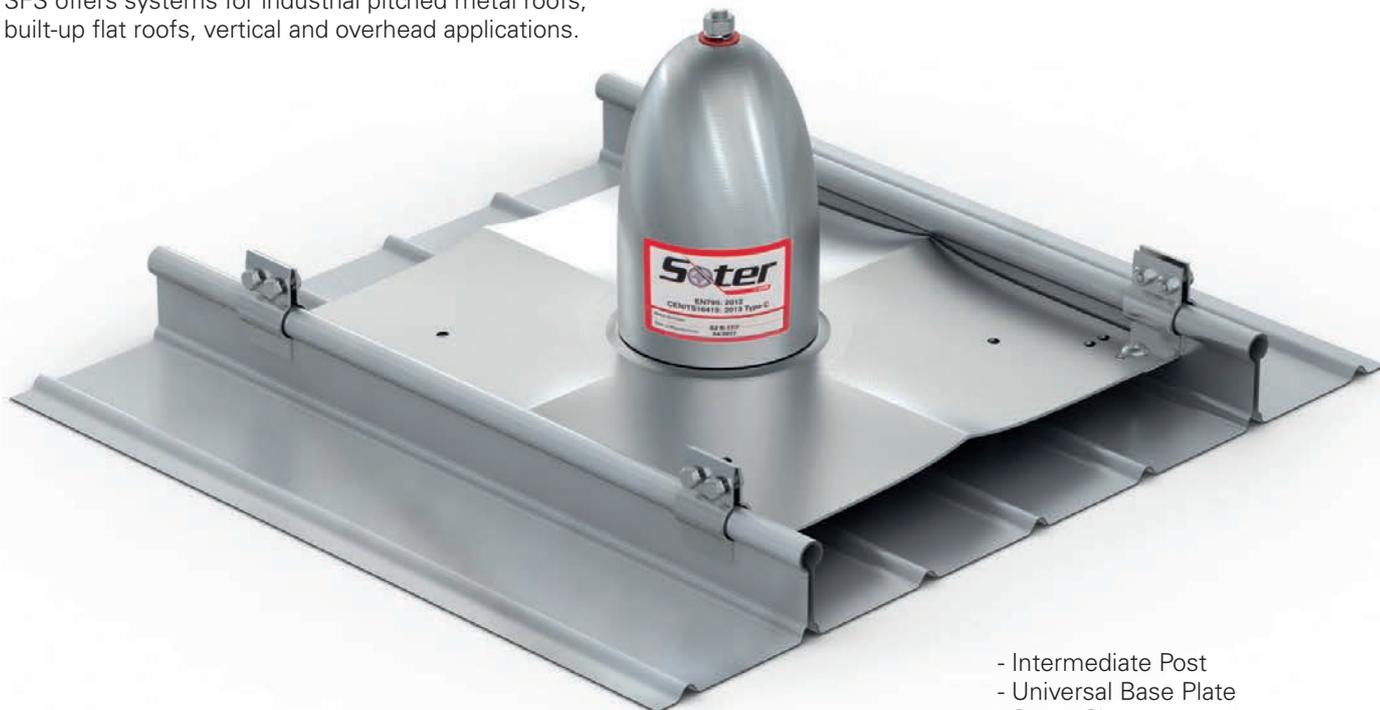


Keeping you safe Fall Protection Systems from SFS

SFS has been evolving its Fall Protection System since its launch, over 10 years ago.

The extensive knowledge gained in the development of fastener solutions for roofing has helped us develop our systems for working at height.

SFS offers systems for industrial pitched metal roofs, built-up flat roofs, vertical and overhead applications.



- Intermediate Post
- Universal Base Plate
- Seam Clamps

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SFS provides a range of leading Fall Protection Systems that are designed to appeal to all parties who come into contact with working at height applications:

- Safety Installer Companies
- Roofing Contractors
- Architects
- Designers
- Building Owners
- Building Contractors

Product Development

Keeping pace with changing market requirements

■ 2017 Soter™ II



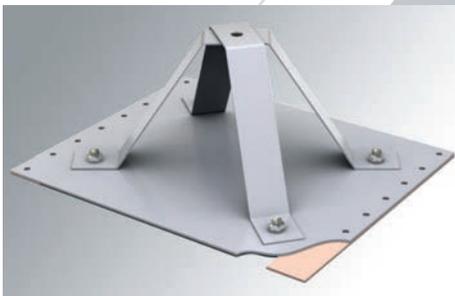
Optimum shock absorbing, reduces deployment loads to the roof structure to under 5.5kN.

The requirement to protect the roof as well as the user led to the development of roof anchors incorporating a shock absorbing element. These internal features help to minimise the load the rivets / fasteners would be subjected to in the event of a fall. Reduced number of fixing points, speeding up installation times.

■ 2000's Shock Absorbing



■ 1990's Semi-Rigid Top Fix Post



In line with the increase in metal and sandwich panel roof constructions came the development of the externally fixed post, secured with rivets or drill screws. These posts feature a minimal shock absorbing element which would still result in roof damage when a fall occurred.

■ 1980's Rigid Through Fix Post



Early rigid posts were secured through to the building frame and meant access was required internally and externally at the same time. Making it very labour intensive and costly to install.

The post penetrates the whole roof, adding the need for weather proofing around each post location. The weathering inevitably broke down after time, leading to leaks and further roof work being needed.

These early posts had no shock absorbing element to them and the potential for serious damage to the roof is high when a fall occurs.

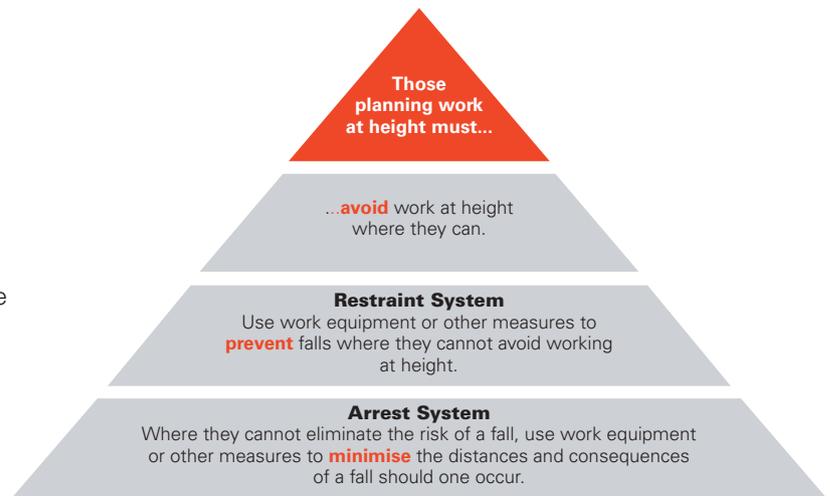
Fall Protection Systems

Hierarchy of Fall Protection

A designer or building owner must ensure the safety of a worker, if the need to work at height cannot be avoided.

Defined by the Hierarchy Triangle, where there is any risk of a fall the system must be designed and classed as an arrest system.

A system can only be deemed restraint where there is no possibility of a fall.



'Avoid work at height wherever possible!'

This is a well known Health and Safety protocol, where working at height is required, we are all responsible for minimising the risks. When roof access cannot be avoided, all current guidance calls for 'work restraint' systems as the best option. SFS design to restraint by default.

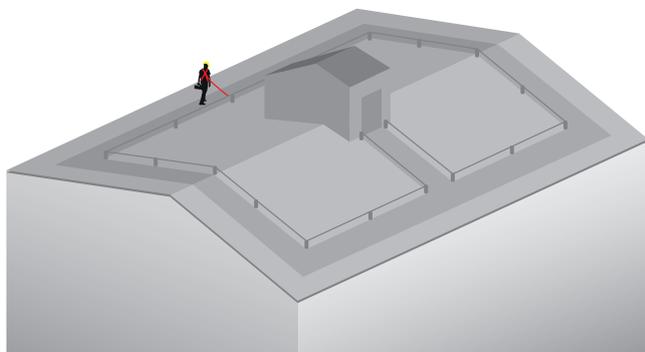
Fall protection systems are either a Restraint or an Arrest system



Restraint
No risk of a fall

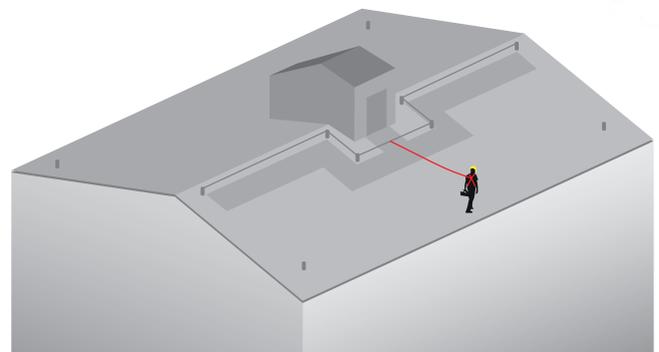


Arrest
Potential for a fall



A typical restraint system is set 2.3m back from the roof perimeter or any open edge or potential fall. The user's path is dictated.

Minimal PPE and user training required.



A fall arrest system requires more input from a design point of view, this should always be backed up with published calculations applicable to the roof substrate type. Other factors such as building height and fall clearances require due consideration

This type of system requires specialist PPE, user training **and** a rescue plan to be in place.

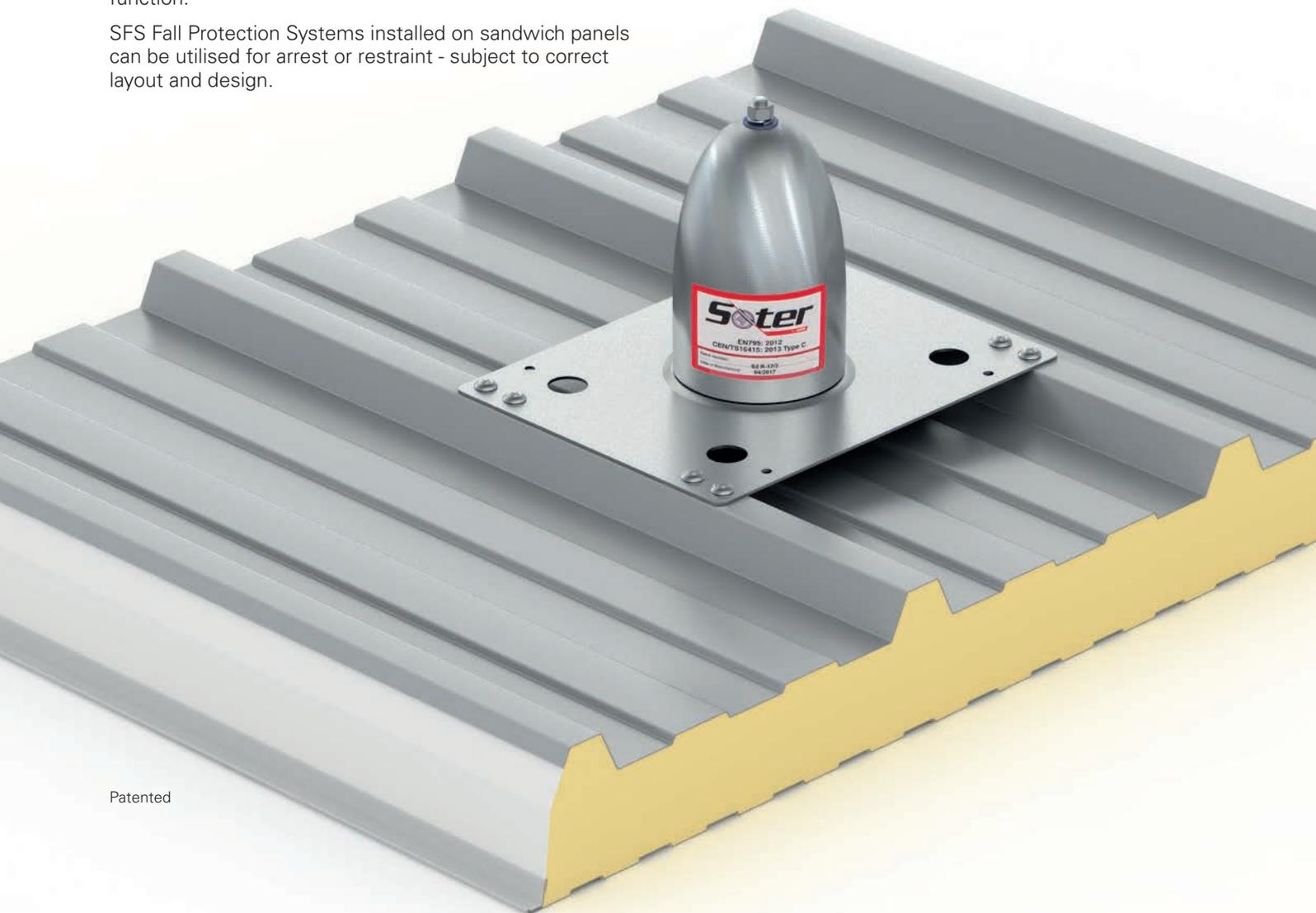
Fall Protection Systems Corrugated Metal Roofing

SFS Fall Protection System for sandwich panels with top skins from 0.5mm.

The use of structural BULB-TITE® rivets from Gesipa, a group company, enables the base plates to be fixed to the crowns of the panels quickly and securely.

The rivet performs a sealing, clamping and security function.

SFS Fall Protection Systems installed on sandwich panels can be utilised for arrest or restraint - subject to correct layout and design.



Patented

Structural BULB-TITE® Rivets



Typical Values			
Fastener	Substrate	Shear	Tension (pull-out)
5.5 dia	2 x 0.7	0.9kn	0.5kn
6.3 dia	2 x 0.7	1.7kn	1.4kn
7.9 dia BULB-TITE® Rivet	2 x 0.7	2.05kn	2.9kn up to 6 x stronger

Fall Protection Systems Built-up Flat Roofing

SFS Fall Protection System for built-up flat roofing

Solutions are available for all types of flat roof build-ups.

M8 Stainless steel gravity toggles, from 150 - 500mm are the preferred option on profile metal deck over 0.6mm and timber decks over 18mm. The SFS toggle cup design recesses the bolt head below the flat surface of the base plate. This eliminates the risk of puncture damage to the membrane.

Options for concrete decks include M8 stainless rods & resin, stainless steel 'through bolt' anchors or simple drop-in anchors.

Flat roof post weathering detail



Flat roof post insulation concrete deck



Flat roof post insulation OSB board / 18mm ply



Flat roof post insulation metal deck

Fall Protection Systems

Metal Standing Seam Roofs

SFS Fall Protection System for metal standing seam roofing

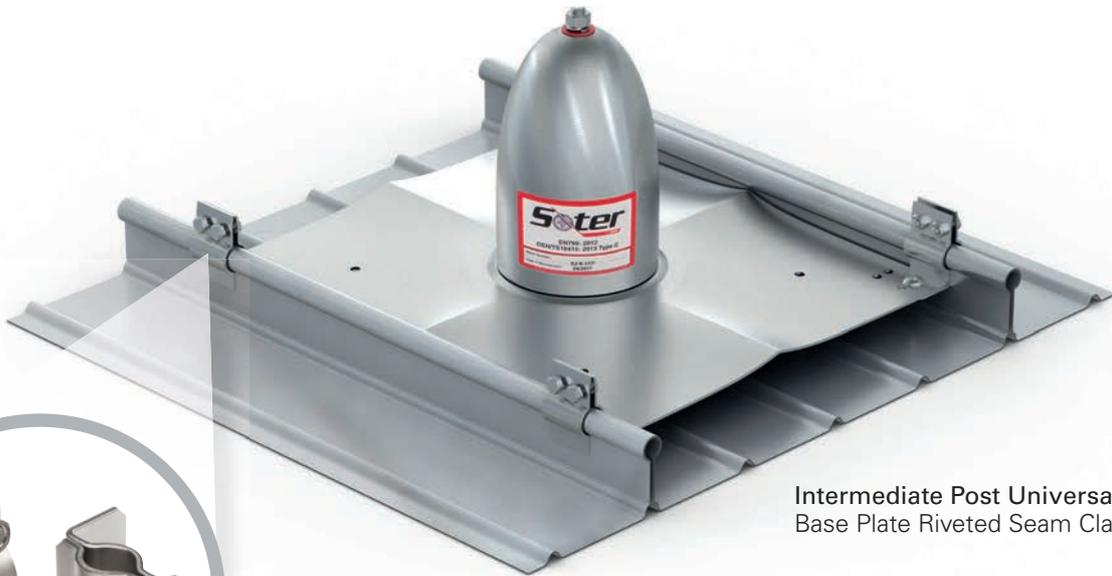
Standing seam roofing systems, designed to avoid outer skin penetrations, prevent the use of rivets in securing anchor posts.

SFS have a range of clamps to suit most profiles.

Standing seam roofs do not have the same strength as many mechanically fixed sheets and panels, this means

that they might be unable to sustain the higher loads generated by a fall on an arrest system.

SFS support leading manufacturers of standing seam roofs by only recommending horizontal line systems that are designed to restraint.



Intermediate Post Universal
Base Plate Riveted Seam Clamps



Riveted Soter™ Seam Clamp
Aluminium Rolled Seams
Non-penetrative



Bolted Seam Clamp
Aluminium Rolled Seams



Folded Seam Clamp
Tradition standing seam roofs
such as copper and zinc



River-Therm® Clamp
Non-penetrative



Fall Protection Systems

Vertical System

SFS Fall Protection System for vertical applications

Meets the latest requirements of BS EN 353-1:2014

The innovative design of the helix intermediate brackets allows for safer installation of the system. The brackets can be installed once the wire is under tension.



Fall Protection Systems Overhead System

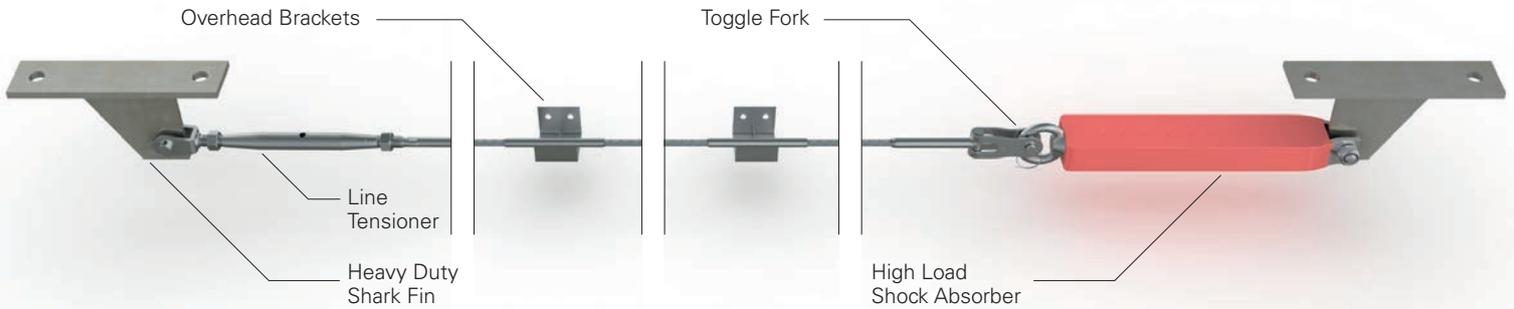
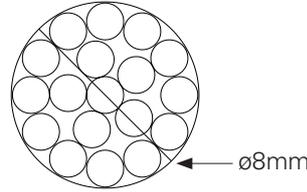
SFS Fall Protection System for overhead applications

Our overhead lifeline system is designed to provide continuous fall protection for users in exposed work place situations.

Single span lengths up to 30m are achievable with 7x19x8mm wire pre-tensioned to 5kN.

Examples:

- Modular building construction
- Trailer maintenance
- Internal overhead crane inspections
- Train maintenance



Soter™ overhead personal attachment device with unique removable feature



Line Calculations Program

SFS Overhead System Configurator

Input data

Maximum span between anchors (*Sa*) m

Total system length (*Ls*) m

Initial tension in cable (*To*) N

Mass of falling person (*m*) kg

Wire construction CSA

Solution

Elongation of loaded half span (*Eh*) m

Maximum tension at impact point (*T*) kN

Maximum deflection at impact point (*D*) m

Maximum end load safety factor (*Em*)

System Details (Enter your results below from the solutions given on the right. A typical example is given in grey)

<i>Solution data</i>	Length (m)	Max Fa (kN)	Max Fm (kN)	Deflection D (mm)
System total length	50	N/A	N/A	N/A
Systems shortest span	10	5.12	5.17	1.39
Systems longest span	20	5.39	4.00	2.71
Other spans of interest	6	5.30	4.74	2.67

0 5 10 15 20 25 30 35 40

Span of Interest

Anchor = 12.18kN Deflection = 1.459m

Fall Protection Systems Bespoke Solutions

SFS for bespoke systems

With over a decade of experience SFS have solved many unusual applications:

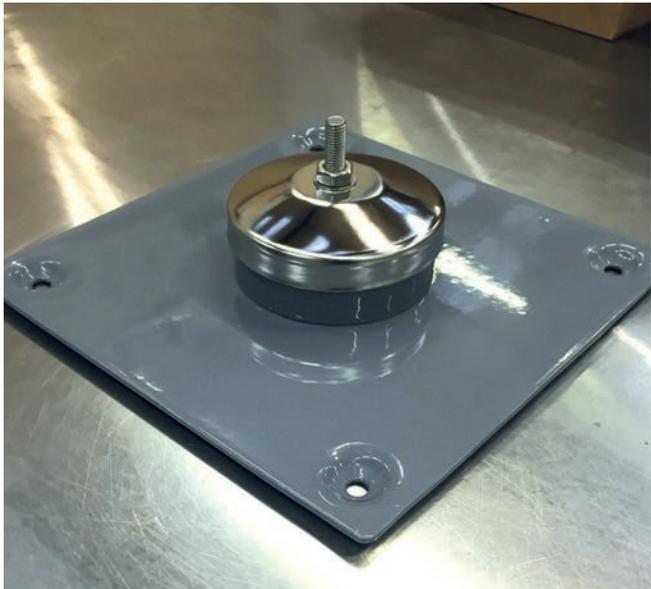
- Green Roofs
- Historic buildings
- Slate and tile roofs
- Watercourse access
- Fabricated posts
- Bridges
- PV



Solar Panels



Wall System, St Paul's Cathedral, London



NEW Solar PV Support Post



Forth Road Bridge



Tile Roof System

Weir Posts



Fall Protection Systems

PPE Personal Protection Equipment

SFS offers project specific PPE sets in-line with each individual requirement

SFS Horizontal Line System Attachment Device

CE0321 EN795:1996 Class B



- Attach anywhere online
- Fully traversable
- CE marked
- Stainless Steel
- Simple and easy to use

Safety Harness



- Front and rear attachment points
- Top and bottom colour distinction
- Fully adjustable
- Quick and simple alloy steel coupling buckles
- 50mm wide webbing
- Comfort pads can be fitted to leg and shoulder straps
- Easy to fit and comfortable to wear

Restraint Lanyards



- Single or Twin Leg
- Standard length single leg 1.85m including karabiners
- Other lengths to order

Fall Arrest Rope Lanyard



- Integral energy absorber
 - Single or twin Leg
 - Standard length single leg 1.8m
 - Standard length twin leg 1.5m
- A fall arrest rope lanyard complete with a highly efficient tear web energy absorber, that in the event of a fall, will reduce forces on the body to well below the 6kN required by the European Standard. It is used to connect the user's safety harness to an approved anchor point.

Adjustable Rope and Rope Grab



Safety lines made up from LSK 11mm rope fitted with sewn eyes. Standard lengths available: 10m, 15m, 20m, 25m and 30m. Other lengths also available.

Rope grabs for use with 11mm / 13mm rope. Manufactured from high strength Aluminium (BS EN 567) for use in conjunction with LSK rope. Automatic Rope Grab which follows the user as the ascend / descend the safety line.

Fall Protection Systems Tools and Accessories

Recommended installation tools

HT-TC026



Hydraulic wire cutter for 8mm stainless wire

HT131-C



130kN Hydraulic swager and die set for 8mm stainless wire



Pro-Gold Battery Riveter for 6605-9 Series Structural BULB-TITE® Rivets



250kN Hydraulic Foot Pump Swager for high tensioned systems



Powerbird Battery Riveter for 6605-9 Series with large BULB-TITE® nose piece Structural BULB-TITE® Rivets

Fall Protection Systems Tested on all Roof Applications

Provides predictable product performance

SFS have their own state-of-the-art testing facilities, a 6x6m test bed and 10m drop tower, suitable for testing to all current EU regulations and standards.

SFS Fall Protection Systems have been independently assessed and comply to EN795:2012 as well as the recently published CEN/TS16415:2013 multi user technical specification. SFS UK also test to ACR[M]002:2009-(Part2) Testing of Roof Anchors on Roof Systems known as the 'Magenta' test method.

At the time of publication a new more rigorous standard for horizontal line systems BS 8610 is at the final draft stage, we are actively including the new standard in all our testing and development work.



Test bed and drop tower

EN 795:2012 – Passed

1. Deals specifically with single-user anchor devices.
2. BS EN 795:2012 states, 'Requirements and test methods for multi-user anchor devices, i.e. anchor devices that allow more than one user to be attached at any time, are provided in a separate Technical Specification CEN/TS16415:2013.
3. BS EN 795:2012 also states that in recognition of foreseeable misuse, anchor devices intended for restraint must be capable to arrest a fall.

CEN/TS16415:2013 – Passed

In recognition that horizontal lifelines frequently need to accommodate multiple users a technical specification (CEN/TS16415:2013) has been written to support the new EN 795:2012 standard.

The technical specification states:

1. Anchor devices must be compliant with EN 795:2012.
2. Multi-user devices must now be tested to simulate a minimum of two users falling simultaneously.
3. In addition the Soter™ II system is tested to accommodate four users.

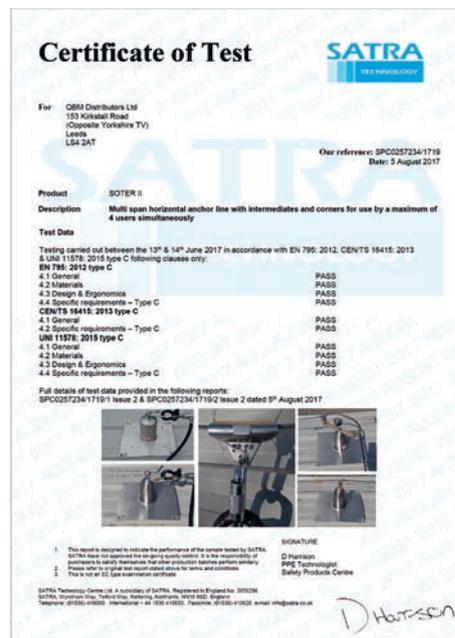
Test Examples



Aluminium Standing Seam



Composite panel



Fall Protection Systems

Line Calculations and System Warranty

Calculation Software

All SFS Fall Protection Systems are made from high grade austenitic stainless steel both A2 and A4 grades, carrying a meaningful insurance backed warranty. This is rare in the construction industry and provides specifiers, installers and users with total peace of mind.

SFS Line System Configurator

Input data

Maximum span between anchors (S_a) 10 m

Total system length (L_s) 50 m

Initial tension in cable (T_o) 800 N

Mass of falling person (m) 100 kg

Wire construction CSA B

Solution

Elongation of unloaded half span (E_h) 5.024651 m

Maximum tension at anchor (F_a) 5.39 kN

Maximum deflection at impact point (D) 2.0769 m

Notes

8mm 1x19 wire rope construction = A

8mm 7x7 wire rope construction = B

8mm 7x19 wire rope construction = C

System Details

(Enter your results below from the solutions given on the right. A typical example is given in grey)

Solution data	Length (m)	Max F_a (kN)	Max F_m (kN)	Deflection D (mm)
System total length	100	N/A	N/A	N/A
Systems shortest span	2	5.12	5.17	1.39
Systems longest span	10	5.39	4.00	2.71
Other spans of interest	8	5.30	4.74	2.67

Span of interest

Deflection = 2.0769m

Fanc (kN) = 5.39kN

Extended Warranty*

- All products sold within the SFS group carry a standard 12 month 'fit for purpose' product warranty*.
- In cases where customers seek additional comfort, they can apply for an extended warranty*.
- Warranty* terms may be 1+24 years... or even longer than this, subject to conditions and project specification.
- A pre-contract questionnaire, covering building use and proximity to chemicals or coastal environment, will be required.
- All warranties are subject to the frequency of inspections and system re-certification.
- The Soter™ SFS warranty* covers all systems installed on Trapezoidal Roof Profiles, Standing Seam and Flat Roofs.
- The Soter™ range is made from non-ferrous & stainless steel components, it carries a design life which goes beyond that of the actual building.
- Standard terms & conditions and covered by our insurance and available on request.

EXTENDED WARRANTY FOR SOTER HORIZONTAL LIFE LINE SYSTEM

In addition to the warranty for the goods provided in condition 5.1 (Standard Warranty) of the Supplier's Terms and Conditions of Sale (Conditions), the Supplier has agreed to provide to the Customer identified below an extended warranty solely in relation to the Goods referred to in the particular order identified and on the terms and for the additional period of time specified below (Additional Warranty Cover).

Soter Customer and order number : _____

Installation address : _____

Main contractor/client : _____

Period of Additional Warranty cover : _____

With effect from : _____

This extended warranty is incorporated into the Specification, and therefore the Conditions (and unless specified otherwise any definitions used in the Conditions shall have the same meaning in this extended warranty), in relation to any Orders to be used at the above specified installation address on the following terms:

1.1 Subject to condition 1.2, if:

(a) The Customer gives notice in writing to the Supplier during the period of Additional Warranty Cover within 30 days of discovery that some or all of the Goods do not comply with the Standard Warranty (or would not have complied with the Standard Warranty had it applied for the period of Additional Warranty Cover); and

(b) The Supplier is given a reasonable opportunity of examining such Goods at the installation address at which the Goods have been in use;

the Supplier shall, replace any goods and repair any damage which in the Supplier's reasonable opinion, was directly attributable to Goods which do not comply to the Standard Warranty (or would not have complied had the Standard Warranty been in place during the period of Additional Warranty Cover as the case may be).

1.2 In addition to being subject to the same limitations as the Standard Warranty and all other parts of the Conditions, the Supplier shall not be liable for the replacement of any goods and the repair to any damage in relation to the goods as set out in condition 1.1 if any of the following events occurred where the damage arose:

(a) due to damage to the Goods resulting from chemically active materials being present in the application build-up.

1

*Standard terms & conditions are available on request

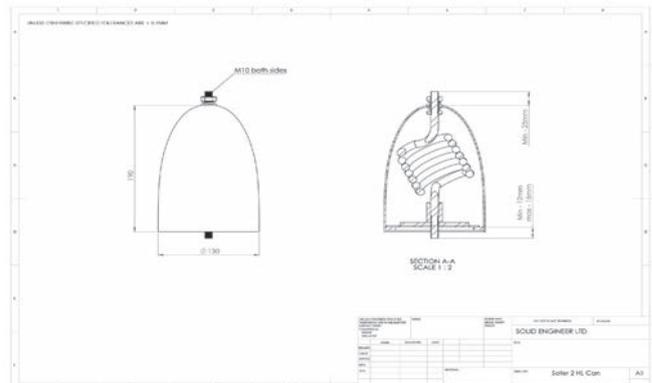
Fall Protection Systems Innovative Design

Patented Energy Absorber

Soter™ has been fully tested and certified to comply with EN795:2012 and CEN/TS:16415:2013.

The requirements of which cover single and multi-users.

In the extreme event of a fall, Soter™ will deploy a uniquely patented energy-absorbing coil that limits the forces developed during free-fall to no greater than 6kN on the roof structure and no greater than 5.5kN on the user attachment point.



Typical flat roof application

Designed to be used in fall arrest or work restraint applications.

During product development major manufacturers played a part in supplying roof profile, insulation and shared their thoughts on how they would like the anchors to perform, to gain their approval. SFS have developed Soter™, a uniquely patented energy-absorbing anchor that, once deployed, reduces the forces generated during free-falling.

The fully stainless solution is housed in a pre-loaded enclosure that is designed to withstand the stresses exerted by snow and ice build-up.

Tested in conjunction with all the major roofing manufacturers of trapezoidal, composite, standing-seam and bituminous & single ply roof systems, there is a solution to all your horizontal safety line needs.

SFS Horizontal Lifeline Systems have been developed to allow users uninterrupted or controlled access to many different roofing applications.

Alternatively they can be installed as a single point anchor for centralised maintenance tasks within a specific area of interest.

As major roofing manufacturers develop profiles of lighter weight and insulation of greater thickness, Soter™ has been designed to complement these advances without compromising structural integrity or user safety.



Patented absorber & release mechanism

Fall Protection Systems Beating Corrosion

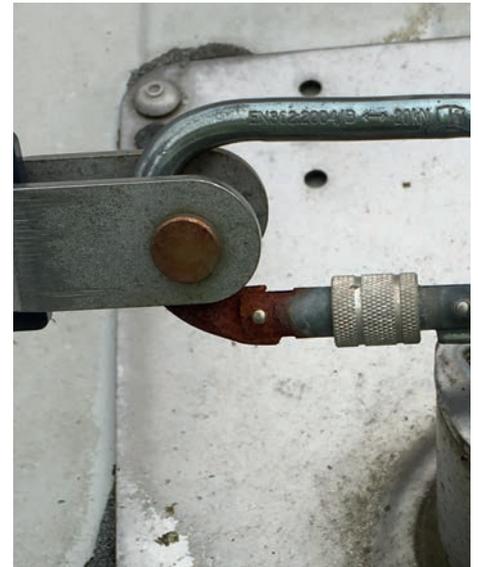


Corrosion of safety line components can also cause unsightly rust stains to appear on the roof sheets. In extreme cases it can cause loss of the integrity of the system as a whole.



More worrying are the effects of hidden corrosion, often this will only become apparent when needed the most, in a fall situation.

It is a common belief that the various protective surface coatings available



offer sufficient resistance to corrosion, but this is not the case.

Protective coatings applied to carbon steel elements will only offer temporary corrosion protection.

SFS SOTER™ System produced with Stainless Steel

SFS understand the problems associated with metals when exposed to the elements. Safety lines are exposed to the weather 365 days a year, for life.

Corrosion is measured in terms of loss of performance which would be catastrophic in a safety line.

Safety lines cannot afford to lose performance.

EN 795:2012 requires **all** components to be subjected to a neutral salt spray test in accordance with EN ISO 9227 for a period in excess of 48 hrs.

After testing metal parts cannot show any evidence of corrosion.



All components within the SFS Soter™ system **including** internal absorbing elements of the post use a combination of both **304 and 316 stainless steel** giving peace of mind to the end user or building owner that any installed Soter™ system will have a lifespan equal to or beyond the building life.

Fall Protection Systems Site Support and Training

SFS provide comprehensive technical support:

- Surveys** Site visits to fully understand the requirement of the system and to recommend the most appropriate product and fixing method
- Design** Full working knowledge of systems, ranging from full access to guided work positioning lines
- Quoting** In house estimating and design functions
- Training** On-site installation and re-certification techniques



Group seminar



On-site training



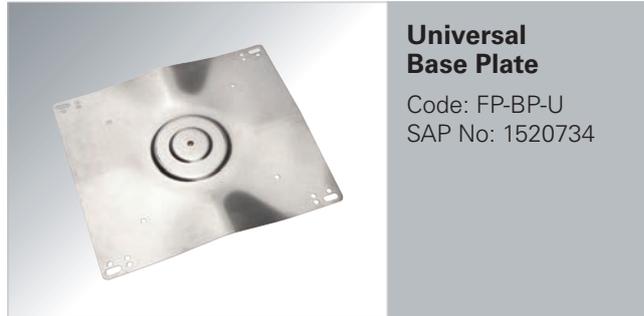
Design and quoting consultancy

Fall Protection Systems from SFS Product Range



Standard Base Plate

Code: FP-BP-S
SAP No: 1501125



Universal Base Plate

Code: FP-BP-U
SAP No: 1520734



Flat Base Plate PVC coated

Code: FP-BP-FC
SAP No: 1501163



Flat Base Plate uncoated

Code: FP-BP-FU
SAP No: 1501165



S2 High Load Can

Code: FP-A-HLA
SAP No: 1520732



S2 Intermediate Can

Code: FP-A-IPA
SAP No: 1520733



S2 Flat Top High Load Can

Code: FP-FTA-HLA
SAP No: 1525902



S2 Flat Top Intermediate Can

Code: FP-FTA-IPA
SAP No: 1525903



Universal End Anchor

System end termination and cross over
Code: FP-A-UA
SAP No: 1501189



Female and Male Rings

Female M10 Code: FP-FR-M10 SAP No: 1501227	Female M12 Code: FP-FR-M12 SAP No: 1501227
Male 10 Code: FP-FR-M10	Male 12 Code: FP-FR-M12



2 Hole Plate

Code: FP-CP-2H
SAP No: 1501201



3 Hole Plate

Support crossing of lines and 2 end terminations
Code: FP-CP-3H
SAP No: 1501202



Combined Line Tensioner with Disk

Line tensioner with tension indicator
Code: FP-LT-D
SAP No: 1501205



Line Tensioner

Line tensioner only for dual tensioned lines
Code: FP-LT
SAP No: 1501206



Tension Indicator

Line tensioner only for dual tensioned lines
Code: FP-LT
SAP No: 1501206



Horizontal Intermediate

Code: FP-IB
SAP No: 1501210



Corner Kit complete

M10 centre hole ideal for rigid systems
Code: FP-CK-ADJ
SAP No: 1501223



Solid Corner without Wire

M10 centre hole
Code: FP-CK-90
SAP No: 1501222

Fall Protection Systems from SFS Product Range



Toggle Fork
System end termination
Code: FP-AC-TF
SAP No: 1520785



Swage Joint Sleeve
For wire joining
Code: FP-AC-CJ
SAP No: 1501252



Strop and Eye
For end of a strop line attachment
Code: FP-AC-EY
SAP No: 1501249



Rivets
6605-9-6W
For fixing to pitch metal roof sheets
Code: FP-AC-BTR
SAP No: 1501254



Soter™ Seam Clamps
Attachment for standing seam profiles
Code: FP-AC-SA
SAP No: 1501170



Slider Device
Code: FP-PP-LA
SAP No: 1501268



S5 Mini
Attaching to folded seam roofs
Code: FP-AC-1S5
SAP No: 1501168



S5 Clamps Top View
M10 Bolt on Aluminium standing seam roofs
Code: FP-AC-SC-M10
SAP No: 1501169



Rivertherm Base Clips
4x2 pc clip set fixing on rivertherm / klak
Code: FP-AC-RC
SAP No: 1501166



Three Hole Corner
For starting and finishing on one post
Code: FP-CP-90
SAP No: 1501203



Standard Shock Absorber

For systems mounted to rigid / fab posts
Code: FP-SA
SAP No: 1501224



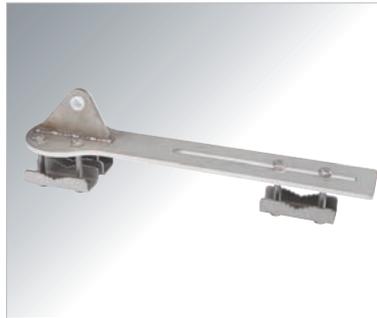
High Load Shock Absorber

For vertical and overhead systems
Code: FP-VS-SA-5K
SAP No: 1520784



Upper Ladder Bracket

For mounting vertical system
Code: FP-VS-UL
SAP No: 1501229



Lower Ladder bracket

For mounting vertical system
Code: FP-VS-LL
SAP No: 1501230



Vertical Intermediate Bracket

Code: FP-VS-IB
SAP No: 1501243



Vertical Device

Code: FP-VS-AT
SAP No: 1501242



S2 OH M16 Line Tensioner

Code: FP-OS-LT
SAP No: 1543653



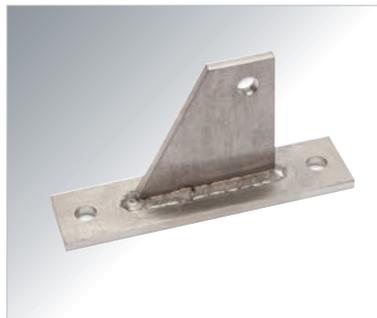
S2 OH Intermediate Bracket

Code: FP-OS-IB
SAP No: 1501246



Overhead Device

Code: FP-OS-TD
SAP No: 1501245



Shark's Fin

Code: FP-A-SF
SAP No: 1501190

Fall Protection Systems from SFS Product Range



System Tag

Code: FP-TS-EN
SAP No: 1501293



Restraint Lanyard, 1m

Restraint lanyard
Code:
FP-PP-LY-RT-1M
SAP No: 1501272



Harness

Code: FP-PP-SH
SAP No: 1501269



Restraint Lanyard, 1.85m

Code:
FP-PP-LY-RT-1.85M
SAP No: 1501273



Twin Leg Restraint, 2m

Code:
FP-PP-LY-RT-2M2L
SAP No: 1501274



Adjustable Restraint, 1.5m

Code:
FP-PP-LY-RT-ADJ
SAP No: 1501275



Twin Leg Shock Lanyard, 2m

Code:
FP-PP-LY-SA-2M2L
SAP No: 1501270



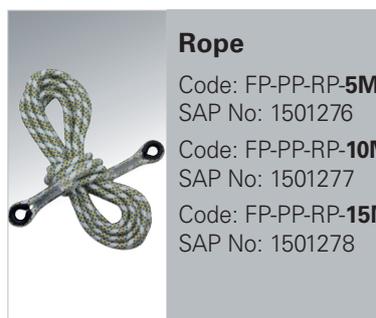
Single Leg Shock Lanyard, 2m

Code:
FP-PP-LY-SA-2M1L
SAP No: 1501271



Karabiners

Code:
FP-AC-K
SAP No: 1555101



Rope

Code: FP-PP-RP-5M Code: FP-PP-RP-20M
SAP No: 1501276 SAP No: 1501279
Code: FP-PP-RP-10M Code: FP-PP-RP-30M
SAP No: 1501277 SAP No: 1501280
Code: FP-PP-RP-15M
SAP No: 1501278



Rope Grab

Code: FP-PP-RG
SAP No: 1501297



Kit Bag

For PPE
Code: FP-PP-KB
SAP No: 1501292



Gravity Toggle and Toggle Cup

Code: FP-AC-TB-150
SAP No.1501171

Code: FP-AC-TB-200
SAP No.1501172

Code: FP-AC-TB-250
SAP No.1501174

Code: FP-AC-TB-300
SAP No.1501176

Code: FP-AC-TB-350
SAP No.1501178

Code: FP-AC-TB-450
SAP No.1501179

Code: FP-AC-TB-500
SAP No.1501180

Code: FP-A-TC
SAP No:1549550



Fab Post

Code:
FP-A-FP-300
SAP No.1501182

FP-A-FP-350
SAP No.1501183

FP-A-FP-400
SAP No.1501184

FP-A-FP-450
SAP No.1501185

FP-A-FP-500
SAP No.1501186

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