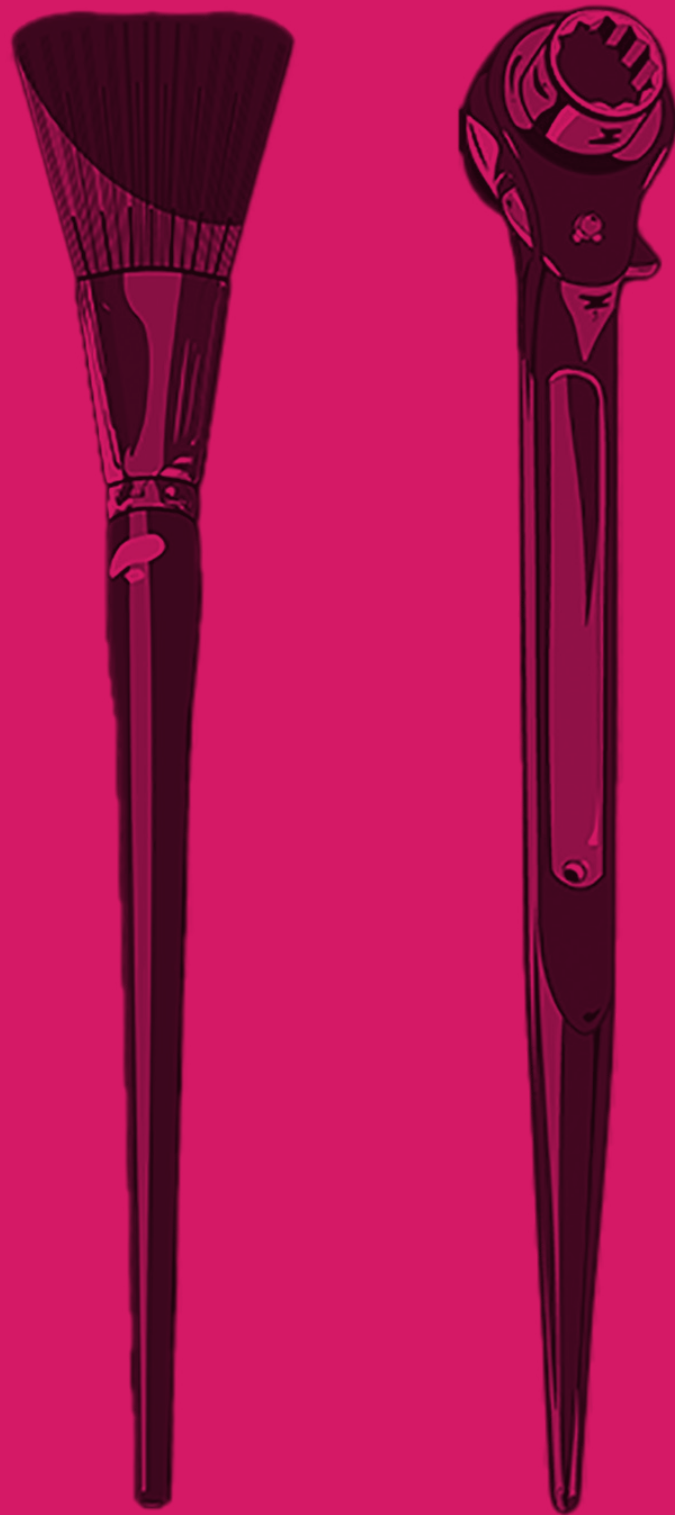


Working At Height & Safety



FLINTS

The one-stop-shop that delivers to your door

Working at Height

Working at height is inherently dangerous. Around 40 people die and 6,000 – 7,000 people are injured each year from falls. Choosing the correct equipment will only make you safer, but not safe. The first thing to consider is whether it is necessary to work at height at all. If it is essential, then the next line of defence is to prevent the possibility of a fall by the use of handrails and work positioning harnesses and lanyards. Should a fall still be possible then fall arrest harnesses and lanyards should be worn. The overhead worker should be trained in the use of this equipment. IRATA is a highly respected training authority and they can provide training guidance. The Health and Safety Executive website www.hse.gov.uk has up-to-date advice. They will email you with changes to regulations and recommendations as they occur [www.hse.gov.uk/news/subscribe/index.htm]. Finally, but of vital importance, consideration must be given to the rapid rescue of personnel who have fallen.

The Importance of Rapid Rescue - Suspension "Trauma" [Syncope]

Swift rescue of personnel who are suspended by a harness and lifeline is of vital importance. If the casualty is suspended, blood will pool in the legs. Leg veins are capable of expanding to take up to 60% of the total blood volume. The reduced venous return results in decreased cardiac output and the casualty will become sweaty, dizzy, nauseous and will faint. Depending on whether their lanyard is attached to the rear or front of the harness, the unconscious casualty's head will be canted backwards or forwards and their tongue will fall to block the airway. Even uninjured volunteers felt dizzy in as little as three minutes, typically 5 to 20 minutes. Loss of consciousness occurred in as little as five minutes, typically 5 to 30 minutes. Such rapid rescue times could not necessarily be achieved by the rescue services so it is crucial that a plan is carefully thought through on how to rescue suspended personnel using **trained on-site staff**. The Temporary Work at Height Directive states that workers must have on-site rescue equipment and training. See the Jag Rescue System on page 232.

Notes on First Aid to a Suspension Casualty

Information on the correct procedure to adopt after recovering a suspension casualty is variable and somewhat confusing. David Halliwell, Head of Education of the South West Ambulance service says [2007] it is critical that the casualty is never laid flat, not even in the recovery position and that they should be kept sitting upright for 30 minutes. He says that if they are allowed to lay flat, the volume of blood that has pooled in their legs will return to the heart and could cause instant cardiac arrest. However, this opinion is disputed by Dr Anil Adishes whose research [2008] has been unable to find firm evidence concerning the problems associated with laying the casualty flat and his advice is to use the standard first aid recovery position. It is important that any person who becomes unconscious while suspended, whether appearing recovered or not, is given full medical supervision [Dial 999] as problems can also occur some days after the rescue due to renal failure.

Reducing the Risks

It may be possible to reduce the chance of venous pooling in a conscious suspended casualty by encouraging them to wiggle their toes or raise their legs, this will help to pump blood out of the legs and to the heart. The information above has been taken from talks on the subject by David Halliwell, Head of Education of the South Western Ambulance Service and by Dr Anil Adishes [Health and Safety Laboratory]. Further information can be found in "Harness Suspension: Review and Evaluation of Existing Information" by Paul Seddon and obtainable as a free AMF download from the HSE website.

The person purchasing fall arrest equipment, which consists of a harness, lanyard and anchor, should be competent to do so.

FALL ARREST

Petzl Newton EASYFIT [International Version]

Rapid intervention fall arrest harness suitable for nonsuspended use at height. Conformity: CE EN 361, EAC, ANSI Z359.11, CSA Z259.10, UKCA Weight: Size 0 - 1655g Size 1 - 1715 g, Size 2 - 1765 g.

- ✓ Shoulder straps equipped with self locking DoubleBack buckles
- ✓ Rapid donning thanks to EASYFIT vest.
- ✓ Sternal and Dorsal attachment points with fall arrest indicators.
- ✓ Quick-attach FAST automatic buckles [Sternal and leg loops] allow the harness to be put on easily with both feet on the ground
- ✓ Stowage system for MGO connectors [page 207] on fall arrest lanyards, one each shoulder strap. In case of a fall the system releases the MGO connectors and allows the absorber to be deployed.
- ✓ Equipment loops and slots.
- ✓ Now fitted with 2 convenient zippered pockets!



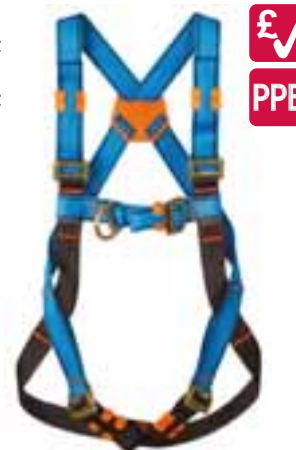
code	height	thigh	waist
PETC073FA00	1.60-1.80m	440-590mm	650-800mm
PETC073FA01	1.65-1.85m	470-620mm	700-930mm
PETC073FA02	1.75-2.00m	500-650mm	830-1,200mm

code	Colour	size	price
PETC073FA00	Black/Yellow	0	£170.00
PETC073FA01	Black/Yellow	1	£170.00
PETC073FA02	Black/Yellow	2	£170.00

ECONOMY FALL ARREST

Multipurpose Harness HT22

Designed for applications which require a front anchorage point but they are also fitted with a rear anchorage. Leg and chest adjustment. Not suitable for suspended use. Conformity: CE EN 361. Fits up to 1,220 mm waist [48"].



code	weight	price
SAFHT22	1000g	£56.99

WORK POSITIONING - CONVERTS TO FALL ARREST

Petzl AVAO® SIT FAST Harness

Designed specifically for working at height this is a lightweight harness that can be converted into a full harness with the addition of the TOP or TOP CROLL chest harnesses. Self-locking DOUBLEBACK buckles on the waist belt and FAST opening buckles on the leg loops making it really easy maintain the right adjustment through your workday.

- ✓ Ventral attachment point for a descender, lanyard or work seat.
- ✓ Rear attachment point on the waistbelt for fall arrest system.

This latest version has had a few design updates. Now with ballistic Cordura fabric on the legs which is much harder wearing, the stretchy loops on the back of the harness are now replaceable and updated breathable contoured foam makes it much more comfortable to use. Conforms to CE EN 813, CE EN 358.

code	weight	size	price
PETC079BB00	1035g	0	£185.00
PETC079BB01	1075g	1	£185.00
PETC079BB02	1175g	2	£185.00

Petzl ASTRO SIT® Harness

This harness has been designed for working at height and rope access technicians which can be converted into a full harness with the addition of the TOP or TOP CROLL chest harnesses. The gated ventral attachment point allows the user to install the necessary equipment for a progression set up.

- ✓ DOUBLEBACK self-locking buckles and FAST opening buckles that make taking the harness on or off or adjusting a doddle even while wearing gloves. The stretchy loops on the back of the harness are also now replaceable.
- ✓ Ventral attachment point for descender, progression/positing lanyard or work seat.
- ✓ Lateral attachment point for positioning lanyard in double mode.
- ✓ Sternal & dorsal attachment points for fall arrest system.
- ✓ Rear attachment point for restraint lanyard.

Petzl found that the most common users of the ASTRO range were working on offshore oil and gas so didn't really need a harness to be as sweat wicking and lightweight as other Petzl harnesses, the least of your worries if you are in the middle of the North Sea. In light of that they now have closed cell foam padding for added comfort and plastic keepers to prevent leg buckles from loosening. Conforms to CE EN 813, EN358

code	weight	size	price
PETC085AB00	1195g	0	£235.00
PETC085AB01	1220g	1	£235.00
PETC085AB02	1315g	2	£235.00

Work Positioning Equipment

Work positioning equipment has been designed to enable workers to position themselves for work at height. Harnesses must comply to EN 358 [or EN 813 Sit Harnesses]. Work positioning equipment is not intended to arrest a fall. Even a short fall onto a waistbelt can prove fatal due to the pressure on the internal organs. The SIT harnesses listed here can be used alone as work-positioning but can be converted to full fall arrest harnesses by adding the TOP chest harness.

BOSUN'S CHAIR

Petzl LITEPOD

This work seat allows you sit whilst suspended in your harness for long periods giving you some additional comfort.

Connects to the harness via a T shape bar that fits through the body of shackles on either side of the ventral attachment point. You could also use the Petzl MINO or using connectors on the loops at the end of the webbing.

Seat adjusts with self-locking DOUBLEBACK buckles and has 2 loops for attaching accessories or equipment.



code	description	weight	price
PETS071BA00 NEW	Petzl LitePOD	770g	£105.00
PETC087AA00	Shackles for ASTRO®		£14.00

Size Guide	Thigh	Waist	Height
Size 0	450-660mm	600-900mm	1.60-1.80m
Size 1	450-660mm	700-1100mm	1.65-1.85m
Size 2	600-750mm	800-1300mm	1.75-2.00m
TOP [one size]	n/a	n/a	1.60-2.00m

CHEST HARNESSES

Petzl TOP CROLL Chest Harness

Chest harness with integrated large CROLL for use with the AVAO SIT FAST or ASTRO SIT, converting them into full harnesses.

- ✓ Widely spaced shoulder straps that reduce neck chafing
- ✓ Sternal attachment point for fall arrest system
- ✓ Conforms to CE EN 361 and CE EN 12841 type B
- ✓ Rope diameter to used with Larger CROLL: 10 to 13 mm



code	weight	price
PETC081CB00	525g	£130.00

HARNESSES

WORK POSITIONING & FALL ARREST

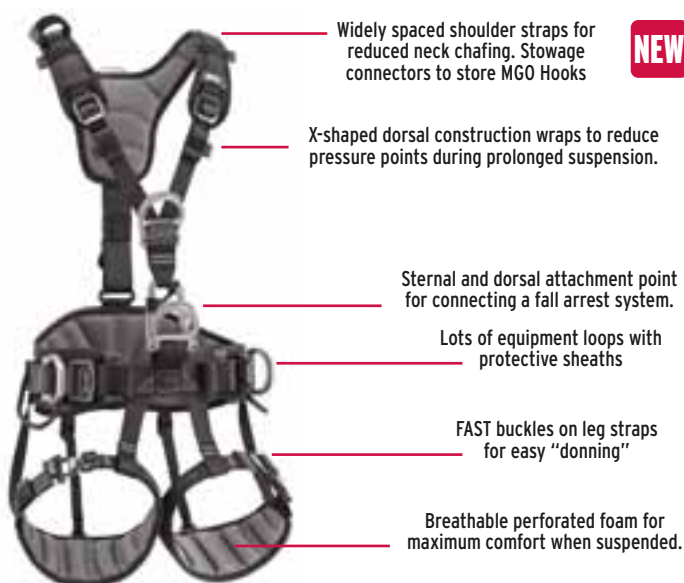
Petzl AVAO FAST® Full Harness

Full harness for working at height and rope descent that has been designed to be lightweight and comfortable.

- ✓ Lateral attachment point for positioning lanyard in double mode
- ✓ Sternal & Dorsal attachment points for fall arrest systems
- ✓ Rear attachment point for restraint lanyard

There have been a few design updates the AVAO FAST, they now have ballistic Cordura fabric on the leg which is much harder wearing, stretchy loops at the back of the harness are now replaceable, load bearing leg strap now sits on the side so it's more comfortable when not in use i.e when you're just walking around, the shoulder straps are now 'floating' so the webbing can slide when reaching, there is greater distance between the legs for comfort and, to reduce weight, the webbing has been made more narrow where possible. Conforms to CE EN 361, EN 813, EN 358.

code	weight	price
PETC071BB01	1735g	£285.00
PETC071BB02	1835g	£285.00



NEW

WORK POSITIONING & FALL ARREST - ROPE ACCESS

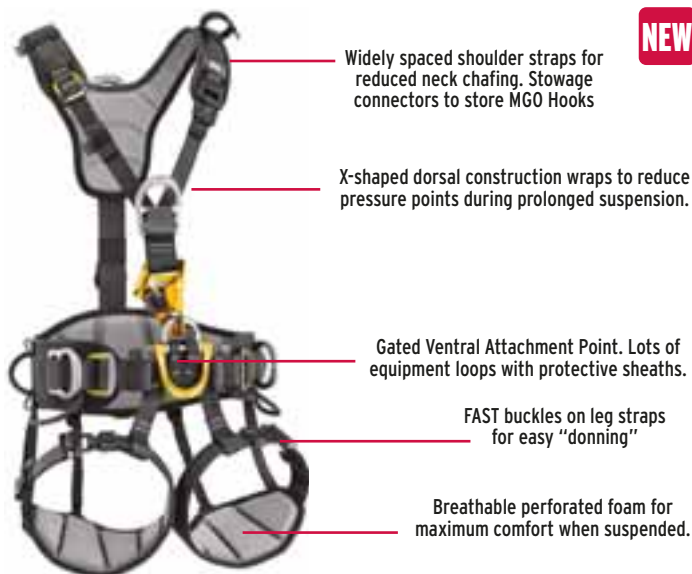
Petzl ASTRO® Full Harness

Designed for rope access technicians with comfort in mind with contoured closed cell foam padding and semi rigid waist belt and leg loops for added support.

- ✓ DOUBLEBACK self-locking buckles and FAST opening buckles that make taking the harness on or off or adjusting a doddle even while wearing gloves.
- ✓ Metal side attachment points can be folded down to prevent snagging
- ✓ The stretchy loops on the back of the harness are also now replaceable.
- ✓ Ventral attachment point for descender, progression, positioning lanyard or work seat
- ✓ Lateral attachment point for positioning lanyard
- ✓ Sternal & Dorsal attachment point for fall arrest systems
- ✓ Rear attachment point on waistbelt for restraint lanyard

Much like the SIT version Petzl has found that the most common users of the ASTRO range were working on offshore oil and gas so didn't really need a be as sweat wicking and lightweight as other harnesses, least of your worries if you're in the middle of the North Sea. In light of that they now have closed cell foam padding for added comfort and plastic keepers to prevent leg buckles from loosening. Conforms to CE EN 361, EN 813, EN 358, EN12841 type B.

code	weight	price
PETC083AB01	1935g	£350.00
PETC083AB02	2060g	£350.00



NEW

WIRE ANCHOR STROPS

Wire Anchor Strop

These 7 mm diameter galvanised steel wire strops are commonly used in the rope access industry to provide a moveable anchor point over RSJ's, truss, and roof beams etc. They have a ferrule-secured thimble eye each end and a protective plastic sleeve. EN 795:1997 has no requirement for Class B anchors to have a breaking load marked on them. Before use check for damaged wire, wire slipped in the ferrule, damaged or deformed ferrules, broken strands, damaged protective cover and deformed eyes. CE marked EN 795 Class B.

code	length	price
SAFL705	500mm	£14.75
SAFL710	1m	£16.67
SAFL720	2m	£21.38



Lanyards

A lanyard is a series of components designed to prevent a person or an object from falling. Typically it would consist of an anchor point, a karabiner, a length of webbing or rope, an absorber and another karabiner. We have divided our section into three parts:

- Work Positioning • Fall Arrest • Small Tool Lanyards

At least two deaths have occurred over the past few years due to lanyard failure so careful choice and training are essential. The person purchasing fall arrest equipment, which consists of a harness, lanyard and anchor, should be competent to do so.

WORK POSITIONING LANYARDS

Rope Lanyard - Type Jane

Dynamic black kermantle rope lanyards with plain sewn ends and plastic sleeves. We offer a kit of a 1 m lanyard supplied with an MGO Open scaffold karabiner [see page 207 for details]. These lanyards can be converted to fall arrest lanyards with the addition of an Absorbica [page 355] secured to the lanyard with a Delta Maillon Rapide [type WIR252B listed on page 205]. Conformity: CE EN 354, EN 795 type B, UKCA, EAC, ANSI Z359.3; CSA Z259.11



code	Type	weight	length	price
PETL050BA00	plain sewn ends	100g	0.6m	£22.00
PETL050BA01	plain sewn ends	120g	1m	£23.00
PETL050BA02	plain sewn ends	145g	1.5m	£25.00
PETL050BA01K	sewn ends plus MGO Open	610g	1m	£72.49

Rope Lanyard

12 mm diameter polyamide [nylon] rope lanyards, with a choice of connector. Conformity: EN 354.



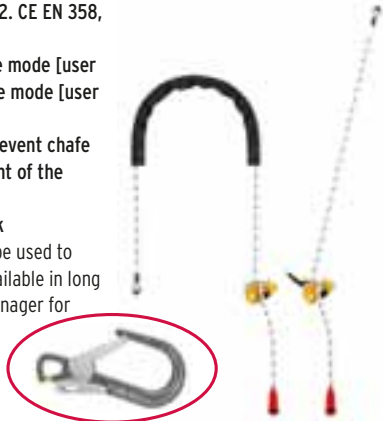
code	Type	length	price
WIRLCA251	M10T Karabiner and one scaffold hook	2m	£57.42

Petzl Adjustable Lanyard - Grillon

An adjustable work positioning and restraint lanyard that allows the worker to easily adjust the length for comfort and safety. Not suitable for fall arrest although they will withstand a small 500 mm fall. The nylon semi-static rope helps absorb some of the forces. Available in 2 m or 3 m lengths [4 m or 5 m available to order]. The standard Grillon requires two connectors [pages 205-207] but choose types to EN 362. CE EN 358, CE EN 12841 type C, EAC.

- ✓ Can be used in two ways – double mode [user has weight on their feet] or single mode [user is suspended]
- ✓ Sliding protective sleeve helps prevent chafe
- ✓ Connects to the side or waist point of the harness
- ✓ Now also available with MGO hook

NB: Grillon Adjustable Lanyards can be used to create horizontal lifelines and are available in long lengths. Please phone our Rigging Manager for details.



code	description	weight	length	price
PETL052AA00	Plain Ended	480g	2m	£135.00
PETL052MG00K	2 m + MGO Open Connector	480g + 490g	2m	£147.00
PETL052AA01	Plain Ended	560g	3m	£135.00

Cow's Tails

This dynamic rope is for creating anchor lanyards (Cow's Tails) for the attachment of the user's harness to an anchor point. Check with the harness manufacturer which harness points are suitable for cow's tails. This dynamic rope must not be used to make a fall arrest lanyard in conjunction with an energy absorber. The knots used must have a minimum static strength of 15 kN. Tests have proved that a correctly tied figure-of-eight knot gives a minimum static strength in excess of 15 kN. Other knots may increase energy absorption but not meet the 15 kN strength. Only trained persons should tie knots to create Cow's Tails. CE EN 892. See also Fibre Rope [page 217].



code	Colour	weight	length	Ø	price
ROPLICT4A	can vary	330g	4m	11mm	£25.01
ROPLICT5A	can vary	410g	5m	11mm	£28.58

RETRACTABLE LANYARDS

A Note on Retractable Lanyards

In many respects, these devices seem to solve some common problems. The length of the lanyard adjusts to allow the user freedom of movement. The inertia reel locks automatically in the event of a fall, keeping the fall distance to a minimum – typically around 400 mm. They should comply with EN 360. However, the tests for these units to ensure compliance with EN 360 do not actually cover the retracting mechanism but only the locking mechanism. Should the retracting mechanism fail to rewind, and a loop of webbing is formed, then the user could be exposed to a F2 category fall or worse. Retractable lanyards should also be fixed to a rigid anchor point. If they are attached to a catenary wire there is a chance that the locking pawls will bounce out as the wire bounces creating a series of arrests. As there is no medical data concerning this, one can only suppose it to be very harmful. Although the Blocfor™ will operate horizontally, careful consideration should be made before employing it in this manner. The worker must be prevented from reaching an edge where a fall could happen. This is because the attachment position of the lanyard to the worker's harness will allow a sudden drop of around 1.5 m onto the cable before the mechanism arrests the fall. The cable will be subjected to very high loads while in contact with a sharp edge. Catastrophic failure will occur. The person purchasing fall arrest equipment, which consists of a harness, lanyard and anchor, should be competent to do so.

Blocfor™

Automatic Fall Prevention Blocks These self-reeling blocks give complete freedom of movement. Supplied with a M47 swivel connector. Available in three lengths. May be used horizontally without the addition of a webbing lanyard placed between the wire and the harness as they now come supplied with an absorber. [Please read our notes at the beginning of this section.] The absorber adds to protect against falls even when the wire is fully unwound, and also doubles a fall indicator. Top stuff. Conformity: EN 360.



code	Type	Material	length	price
SAF70572	Model 70572	galvanised wire	10m	£345.82
SAF74532	Model 74532	galvanised wire	30m	£779.32

LANYARDS & ANCHORS

Blocfor™ 20R and 30 R with Securing System

Automatic fall protection device with integrated winch for ascent or decent during a possible rescue operation. Complete with M46 connector, and absorber that adds to protect against falls even when the wire is fully unwound. Available in cable lengths of 20 m or 30 m. Conformity: EN 360 and EN 1496 Class B.



code	Type	Material	length	price
SAF75492	Model 75492	Galvanised line	20m	£1,189.86
SAF75502	Model 75502	Galvanised line	30m	£1,576.04

Blocfor™ Inertia Reel Lanyard

These Blocfor™ 2W 47-10 inertia reel lanyards allow freedom of movement but will lock automatically in the event of a fall. They are of particular use where a conventional lanyard could allow the user to come in contact with the ground or swing into supporting legs. 45 mm wide polyester webbing. Tractel code: 75389. Braking force: 5 kN. Conformity: EN 360.

Measurements

Eye-to-eye closed – 430 mm

Eye-to-eye fully extended opens to – 2,090 mm

[Travel distance – 1,660 mm]



code	description	length	price
SAF75389	M10T Karabiner & M47 hook webbing	2m	£109.71

FALL ARREST LANYARDS

The Working at Height Regulations came into effect on 6th April 2005. The information here is derived from technical symposiums with industry experts and Health and Safety Executive representatives.

- ✓ A fall arrest lanyard system has to be strong, 15 kN is the most popular minimum static strength although regulations permit anchor points of 12 kN.
- ✓ The lanyard must prevent high shock loads when deployed. Parachutists were found to be able to withstand up to 12 kN impact force but this needs to be halved to take into account less athletic personnel. Energy absorbers are designed to transfer a maximum shock load of 6 kN. This assumes an average body weight of around 80 kg. Very light people and children would be subjected to much higher shock loads if standard equipment were used. If your weight is considerably lighter [or heavier] than the adult norm then you should seek further advice from the equipment manufacturers.
- ✓ Lanyards are designed for a max weight of 100 kg. Greater weights can be acceptable if the lanyard is shortened. Petzl state 100 kg = Max Lanyard Length 2 m, 120 kg = MLL 1.67 m, 140 kg = MLL 1.43 m.
- ✓ You should remain clipped on at all times. If you are moving around a structure you will need two lanyards but please note that you must never use two absorbers. A twin-legged lanyard with one absorber is the correct equipment and the spare leg must never be clipped back to your harness or the absorber could be "shortcut" and high impact forces transmitted to your body.
- ✓ Always clip your lanyard onto a point above or level with you. A 1.5 m long lanyard clipped on level with the attachment to the harness will permit a 1.5 m fall. This is referred to as an "F1" fall. The same lanyard clipped on at foot level will allow a 3 m fall which is referred to as a "F2" fall. Users should try to ensure that their fall will not exceed an "F1" fall.
- ✓ The entire lanyard [including connectors and absorbers] must not exceed 2 m. Check ground clearance too as energy absorbers require stated minimum clearance distances.
- ✓ Always inspect your lanyards thoroughly before use for signs of wear, dirt and grit, UV degradation [fading], nicks and tears, and corrosion in the fittings. Failure can happen in a fraction of a second without any second chances. Clean your equipment after use and dry it before storing.
- ✓ IRATA is the highly regarded training body, and anyone working at height should be trained to do so.

Petzl Absorbica

Now much more compact, the Absorbica is an energy absorber designed to be used in combination with a Jane lanyard and make a fall arrest lanyard.

The Absorbica works by the progressive tearing of the absorber webbing which limits the impact force of a fall.

For users weighing between 60 and 140 kg.

The fabric outer pouch has an opening for regular inspection.

Conforms to CE EN 355.



NEW

code	price
PETL010AB00	£39.00

Delta Pattern

This black 8 mm Delta Maillon Rapide is the preferred

connector to link the Petzl Absorbica to the Jane lanyard. Conformity: EN 12275:1998 and EN 362. For

other Delta Quick Links see page 205.



PPE

code	Type	gate opening	WLL	bar ø	price
WIR252B	PPEDZ08N	10mm	550kg	8mm	£6.88

Petzl Absorbica I Type

Single lanyard with integrated Absorbica which absorbs energy in case of a fall.

For users weighing between 60 and 140 kg. Available on its own for you

to use your own locking carabiner or with MGO Open with a large gate opening.

Conforms to CE EN 355.



NEW

code	description	price
PETL011AB00	Absorbica Type 80 cm	£51.00
PETL011AB00K	Absorbica c/w Petzl MGO Open 60 Connector	£111.00

Petzl Absorbica Y Type

Double lanyard with integrated Absorbica which absorbs energy in case of a fall. Designed for progression on a vertical structure or horizontal lifeline. For users weighing 60 and 140 kg. Available on its own for you to use your own locking carabiners or with MGO Opens with a large gate opening. Conforms to CE EN 355.

code	description	price
PETL012AB00	Absorbica Y Type	£63.00
PETL012AB00K	Absorbica c/w MGO Open 60 Connector	£123.00



NEW

SMALL TOOL LANYARDS

Dropped tools are the second largest cause of fatalities in the UK workplace. The lanyards below are designed to secure small tools such as podgers or power tools whilst working overhead. Check the lanyard chosen is suitable for the tool weight. Beware of using lanyards that are too strong just in case the lanyard becomes entangled in machinery, it would be better for the lanyard to fail rather than have it drag the user into the sausage-making machine.

Small Light Duty Lanyard

Compact, light duty lanyard for small tools up to 500 g. Snap hook attachment one end & rope loop on the other, both spin 360° to avoid tangling. Made from polyurethane coated stainless steel wire. Maximum Working Extension: 66 cm Coiled Length: 260 mm



NEW

code	price
TOPSFC206BK	£6.39

Clip Sprung Tool Lanyard

An expanding sprung lanyard with special quick tool attachment which allows tools to be easily changed without needing the usual wire loop. 470 mm long expanding to 1,700 mm. 3 mm Ø. Stainless steel wire core. Charcoal black. Highly recommended. Max load: 1 kg.



code	Colour	price	10+	50+
SAFAR430B	Charcoal black	£14.35	£12.92	£11.20

Long Lightweight Sprung Tool Lanyard

A purple sprung lanyard which is very lightweight at just 45 g making it ideal for work at height – well, it all adds up! Expands from 490 to 1,820 mm. Supplied with wire loop for podger attachment and two snap shackles. 2.5 mm Ø. Kevlar core. Max load: 1 kg.



code	Colour	price	10+	50+
SAFARK10K	Purple	£14.35	£12.92	£11.20

Heavy-Duty Sprung Tool Lanyard

A substantial lanyard, 410 mm long expanding to 1,400 mm. 5 mm Ø. Supplied with two snap shackles but no wire loop. Stainless steel core. Max load: 3 kg.



code	Colour	price	10+
SAFARS30B	Black	£14.95	£13.45

Ergodyne Barrel Lock Lanyard

This lanyard expands from 890 mm to 1,100 mm. With a barrel lock to fit to small tools such as hammers and quad spanners. Max load: 2.26 kg.



code	price
ERGE3100STD	£9.32

Ergodyne Squids® Detachable Karabiner Tool Lanyard

Lightweight shock absorbing tool lanyard with karabiner with captive eye on one end and detachable loop on the other, reduces the dynamic force on the body or other anchor point. The durable polyester elastic extends from 960 mm to 1370 nm. Max load: 2.3 kg.



code	price
ERGE19864	£11.12

Ergodyne Squids® Retractable Tool Lanyard

Retractable tool lanyard with a manual locking stainless steel karabiner attachment on both ends. Locks into place at desired length. Includes female buckle attachment on the cord to easily switch tools with male buckle attachment.

SPECIFICATIONS: Max length: 1.22 m, Max load: 0.45 kg.



code	price
ERGE19300	£34.17

Ergodyne Squids® Tool Wrist Lanyard

Polyester webbing cuff secures to wrist while the barrel lock secures to the spanner or small tool.

Max load: 0.9 kg.



code	description	price
ERGE3115SM	Small/med wrist	£2.57
ERGE3115LXL	Large/XL wrist	£2.57

Ergodyne Squids® Pull-on Wrist Lanyard

The modular buckle connection makes it easy to switch between tools with buckle attachments. One size fits all.

Max load: 1.4 kg



code	price
ERGE19057	£7.43

LANYARDS & ANCHORS / MOBILE FALL ARREST

Ergodyne Squids® Dual Clip Grabber

Grabbers keep your gloves, keys and whatever else always seems to mysteriously disappear close at hand. This versatile dual clip version can be used as one unit or detached, clipped to D-rings and used as two separate pieces.



code	price
ERG19112	£2.84

SMALL TOOL ATTACHMENTS

Ergodyne Squids® Elastic Tool Tails

As well as being used as an anchor point on a belt, harness or separate structure, these tool tails can provide retrofit O-Ring attachment points to tools and equipment up to 6.8 kg. They can be attached to tools with Tape Trap or Shrink Trap.

Length: 280 mm [extended: 460 mm]



code	description	price
ERG19767	pack of 3	£9.50

Ergodyne Squids® Tool Lanyard Karabiner Accessory Pack

Attach the male buckle end to a lanyard with a female buckle attachment and attach the stainless steel manual locking karabiner to a tool with an attachment.

Max load: 0.46 kg.



code	description	price
ERG19325	Pack of 3	£22.37

Ergodyne Squids® Tool Connectors Web Tool Tails

These ultra strength nylon web tool tails can provide retrofit D-Ring attachment points to a variety of tools. They can be attached with the Tape Trap or Cold Shrink Trap.

Max load: 0.9 kg.



code	description	size	price
ERG19703	6 pack	90mm	£7.43
ERG19705	6 pack	140mm	£7.43
ERG19708	6 pack	215mm	£6.55

Ergodyne Squids® Tool Lanyard Detachable Loops

As an alternative to using both the Tool Tails and Karabiner Buckle attachment above, you can attach these to your tools with the Tape Trap or Cold Shrink Trap for easily changeable tools.

Max load: 2.26 kg.



code	price
ERG19068	£5.99

Ergodyne Squids® Tool Connector Self-adhering Tape Trap

This fibreglass reinforced Self-Adhering Tape Trap secures attachments onto your tools and adds extra grip. Uses no adhesive so tools are left perfectly clean when removed.

Length: 3.7 m [per roll], width: 25 mm wide. Max load: 4.5 kg.



code	price
ERG19755	£25.79

Ergodyne Squids® Cold Shrink Trap

A more permanent alternative to the Tape Trap. Simply place the tube over the handle of your tool with the connector in position. Pull the far end of the perforated tube through itself and gradually unwind. The EPDM rubber will slowly form to the handle trapping the connector point in place. No heat necessary.

Max load: 2.26 kg.



code	description	length	fits tool diameter	price
ERG19723	S	76mm	19-38mm	£8.42
ERG19724	M	101mm	125-175mm	£10.04
ERG19726	L	152mm	44-63mm	£14.63

MOBILE FALL ARREST

There are many simple lever rope grabs on the market which are designed to drag along a safety rope and lock in the case of a fall. The standard for these devices involves testing the product with a 100 kg weight being dropped via the lever and the braking distance must be within a certain distance. Usually they will pass this simple test. However, the reality is that if you were to fall off a ladder, the drop is often not a neat vertical descent but there is a tendency to fall outwards away from the safety line. In this case, the lever action will not be activated and the "safety" device will run down the safety line as the casualty falls to the ground. The casualty will be injured or worse but the device still meets the standard. The Petzl ASAP Lock overcomes this potential hazard by not using the simple lever cam employed in most devices but a system that will stop any descent which is too fast.

Petzl ASAP Lock

The ASAP Lock is a reference product in fall protection for a single worker at height. In normal use, the device moves freely along the rope without any manual intervention and accompanies the user in all their movements. In case of shock or sudden acceleration, the ASAP Lock locks on the rope and stops the user. The integrated locking function allows the user to immobilize the device in order to reduce the length of a fall. The ASAP Lock may also be combined with an energy absorbing lanyard to work at a distance from the rope. For use on safety lines of semistatic rope [EN 1891 type A] from 10 mm to 13 mm diameter [page 222].

- ✓ Stops a descent that is too fast or a slide on an inclined surface
- ✓ Works on vertical and inclined rope
- ✓ Locks onto the rope even if grabbed reflexively by the user
- ✓ Moves up and down the rope without manual intervention
- ✓ Easy to put on and remove at any point on the rope
- ✓ The device does not have to be removed from the connection to the harness in order to remove the fall arrest from the rope

Individually tested. Conformity: CE EN 353-2, CE EN 12841 type A, EAC.



code	price
PETB071BA00	£190.00

Petzl ASAP'sorber & ASAP'sorber Axxess

When using the ASAP Lock mobile fall arrester it is best to attach it directly to your harness. However, this may restrict the user's movement to carry out certain tasks. Using this energy absorber with the ASAP Lock enables the user to keep a distance from the safety rope whilst limiting the impact force. The ASAP'sorber Axxess can be used in two-person rescue situations for a load of up to 250 kg. NB: Be aware that using an ASAP'sorber will increase the amount of clear free-fall space needed.

Conformity: ASAP'sorber: CE EN 355 ANSI Z359.13 6 feet, EAC. ASAP'sorber Axxess: CE EN 355, ANSI Z359.13 6 feet.



ASAP'sorber 200mm

ASAP'sorber 400mm

ASAP'sorber Axxess

ASAP'sorber	length	price
PETL071AA00	200mm	£29.00
PETL071AA01	400mm	£34.00
ASAP'sorber Axxess	length	price
PETL071CB00	400mm	£40.00

CLIMB ASSIST PULLEY

ALF – Auto Locking Fall Arrest Pulley

We saw a demonstration of this system and were impressed. The ALF is designed for climbing vertical structures. At low speeds the rope runs freely around the pulley, in the event of a fall the rope speed ensures an inertia brake will kick in. The fall distance is extremely short. In the unlikely event that a rescue is needed it can be carried out from ground level. By using a continuous rope loop, when one person reaches the top, the return line provides an attachment point for the next climber. Use low stretch 11 mm rope to EN 1891 [page 222]. The Large Prussik Pulley is the ideal return pulley.



code	description	MBS	max rope Ø	price
SAFRP066	Large Prussik Pulley	70kN	16mm	£44.96

ASCENDERS & ROPE GRABS

Petzl TIBLOC Compact Emergency Ascender

In a bind, this ultra-lightweight ascender can be used to build hauling systems or as a Prusik replacement in self-rescue situations. Use with the ULTRALEGERE sheave [page 238] for an ideal lightweight, compact emergency hauling kit. Chrome-plated steel cam with angled teeth and self-cleaning slot securely grips the rope, even in muddy or icy conditions. Can be used as a progress capture device in a hauling system. A small hole at the top of the TIBLOC allows a keeper cord to be attached. This new version has plastic housing to aid the release of the rope in poor conditions Chrome-plated steel. For use on single 8 - 11 mm ropes with a locking karabiner having a 10 to 12 mm round or oval cross section. Conformity: CE EN 567, EAC.

- ✓ A work of sheer genius ✓ So simple and so light
- ✓ A personal favourite ✓ New version has plastic housing



code	price
PETB01BN	£34.00

Petzl Ascension

A rope clamp/grab for ascending fixed ropes from 8 - 13 mm Ø. Ergonomic grip and spring catch allows one-handed removal and installation on the rope. 2 upper holes allow a karabiner to be clipped around the rope and 2 lower holes for foot loop [see below] and lanyard. Individually tested. CE EN 567, NFPA L. Weight: 195 g.



Left Hand

Right Hand

code	description	Colour	price
PETB17ARA	Right hand	Yellow with black	£53.00
PETB17ARN	Right hand	Black	£55.00
PETB17ALA	Left hand	Yellow with black	£53.00
PETB17ALN	Left hand	Black	£55.00

Petzl Footape C47A

Adjustable webbing foot loop for rope ascents designed for use with handled rope grabs such as the Ascension listed above. Can be attached using a Maillon Rapide such as WIR250B listed on page 204..



code	weight	price
PETC47A	65g	£16.00

Petzl Basic Compact Versatile Rope Clamp

Use it to ascend a fixed rope, or as progress capture in a hauling system. Toothed cam with self-cleaning slot optimises performance under any conditions [mud, ice etc.]. The stainless steel cam resists corrosion. Wide lower hole allows lanyard and foot loop karabiners to be easily connected. Upper hole for clipping a karabiner around the rope. Conformity: CE EN 567, CE EN 12 841 type B.

Rope Ø: 8 - 11 mm.



code	price
PETB18BAA	£48.00

Petzl Pantin® Foot Ascender

Designed to make rope ascents faster and less tiring. Used to complement the Croll, or Ascension rope clamps. A cam facilitates passage of the rope through the device, even on the first few metres. The mechanism is totally integrated into the body of the rope clamp to help prevent snagging. Releases from the rope with a simple backwards movement of the foot. Lower strap is 100% Dyneema to resist abrasion. Easy adjustment with DoubleBack buckle. Warning: the Pantin is not PPE. Rope Ø: 8 - 13 mm. Weight: 85 g.



Right foot version

code	description	Colour	price
PETB02CLA	Left foot	Yellow	£50.00
PETB02CRA	Right foot	Yellow	£50.00

MOBILE FALL ARREST

Petzl Croll

Chest mounted rope grab for use with the Ascension when ascending ropes. Ergonomic spring catch allows one-handed removal and installation on the rope. Angled attachment hole allows the Croll to lay flat against the stomach. Rectangular upper hole takes Secure shoulder straps to position the Croll correctly. Slides up the rope easily as the user ascends. Conformity: CE EN 567 and CE EN 12841 Type B. Individually tested.

Rope Ø: Croll 8 - 11 mm, Croll L: 8 - 13 mm.



Croll



Croll L



Secure Shoulder Straps

PPE

code	description	price
PETB16BAA	Croll	£48.00
PETB016AA00	Croll L	£48.00
PETC74A	Secure shoulder straps	£22.00

Petzl Stop

Self-braking descender for single 8.5 - 11 mm diameter rope. Brakes when the handle is released. The rate of descent is controlled by varying the grip on the free end of the rope. Training is essential before using descenders. Conformity: CE EN 341 class A.



PPE

code	price
PETD009AA00	£105.00

Petzl Huit D02

Figure-of-eight descender for single or double rope. Smaller hole may be used for smaller diameter rope for an additional braking option. Individually tested.



code	price
PETD02	£16.00

Petzl I'D L

Self-braking descender with anti-panic function. The I'D L is suitable for larger ropes [12.5 - 13 mm], loads up to 280 kg [150 kg for 1 person], and includes an antipanic function. Further details of this product can be seen on our website.



PPE

code	Colour	rope diameter	price
PETD20R	Red	12.5-13mm	£195.00

Petzl RIG

A compact self-braking descender for experienced rope access workers.

This has replaced the heavier and bulky I'D S. The ergonomic handle allows convenient and comfortable control of the descent. There are two possible descent modes: on the side plate or in the V-shaped friction channel. The new stainless steel wear plate improves durability by reinforcing the rope friction zone often worn down quickly by those who make many quick descents. The AUTO-LOCK system allows users to easily position themselves at the work station without having to manipulate the handle or tie off the device. Once locked, the rope can be taken up without having to manipulate the handle allowing for easy short ascents, for example (by adding a FOOTAPE or FOOTCORD foot loop and an ASCENSION handled rope clamp). It is also easy to install a rope, thanks to the rope guide and markings.

Safety gate on the moving side plate allows the rope to be installed while the device remains connected to the harness. Handle automatically switches to storage position when the rope is removed from the device.

SPECIFICATION: Maximum working load: 200 kg. Conformity: CE EN 341 type 2 class A, CE EN 12841 type C, CE EN 15151-1, NFPA 1983 Technical Use.



code	Colour	rope diameter	price
PETD021AA01	Black	10-11.5mm	£160.00

RIGGING HUBS

Petzl Paws

For organising the work station and creating multianchor systems. Made of aluminium. 3-year guarantee. Conformity: CE, NFPA 1983 General Use. Breaking Strength: 45 kN.



Small



Medium

PPE

code	description	Colour	price
PETG063AA00	Small	Black	£25.00
PETG063AABA	Medium	Black	£46.00

General Information about Helmets

"Unless there is no foreseeable risk of injury you must provide your employees with safety helmets and decide when, where, and how they should be worn. Safety helmets must be worn in designated 'hard hat' areas. Only turban-wearing Sikhs are exempt from these requirements. Wear the helmet so that the brim is level when the head is upright, i.e. don't wear it sloping up or down as this may significantly reduce the protection it can provide. Don't use your helmet as a handy basket – it is designed to fit on your head, not for mixing cement or carrying nails! Don't paint it or use solvents to stick labels to it, or scratch an identification mark onto it, the shell could weaken and rapidly deteriorate. The manufacturer can be asked to add a label. Don't store them in heat or direct sunlight, such as in the rear window of a car."

An extract from the HSE information sheet. All straightforward stuff but there is often some confusion regarding chin straps.

Chin Straps

For work at ground level the helmet must come off easily if snagged – perhaps by a chain hoist hook or flying bar. The chin strap, if fitted, must release at 25 daN, around 25 kg. It must conform to EN 397. For work at height the helmet must remain on the head during impact and the chin strap must withstand more than 50 daN and conform to the mountaineering standard EN 12 492.

If using a Work at Height helmet at stage level the chin straps should not be employed if there is any risk of the helmet being snagged by hoists. The HSE information sheet simply says, "Chin straps should be provided and used if a job involves work in windy conditions, especially at height, or repeated bending or constantly looking upwards".

Helmets should be comfortable to wear, they should fit the head snugly and be positioned centrally. They should be able to be worn with other PPE items such as visors, head torches and ear defenders.

VAT on Helmets and Work Boots

This is slightly complicated. They must be made to the appropriate European or British Standard, bear a mark indicating the standards, and be for industrial use. They must not be supplied to persons for use by their employees. As an individual purchasing the appropriate helmet or work boot for industrial use you may be entitled to zero-rating.

Visit www.customs.hmrc.gov.uk for full details. We will ask you to sign a form if you would like to claim zero-rating on these products. The form can be downloaded at www.flints.co.uk/downloads.

BUMP CAP WITH LED LIGHTING

Bump Cap with LED Lighting

Gives protection against bumps and bruises on the head with a state-of-the-art shell. The built-in LEDs illuminate projects without a flashlight or bulky headlamp. Conformity CE EN 812.

Powered by four CR2032 lithium ion batteries (included), 48 lumens brim length: 50 mm



code	Colour	price
ER62370	black	£37.04

WORK AT HEIGHT AND GROUND LEVEL

Petzl have updated their helmets, so they now all include an adjustable Dual chinstrap. What does this mean? It means you no longer need two helmets for working at height and at ground level, as you can adjust the strength of the strap to accommodate both!

Petzl Vertex Vent

The Vertex Vent is ideal for working outside - the ventilation can be controlled by sliding shutters, perfect for blocking out rain and bad weather or keeping you cool in the sun! Also very useful for occasional work with electricity where there is a chance of sparks flying. Conformity: EN 12 492, CE, EAC, ANSI Z89.1:2009 Type I Class C. Meets the requirements of the EN 397 and EN 12492 standards for protection against impact. Meets the optional requirements of the EN 397 standard for lateral deformation and use in low temperatures. May be eligible for zero rate VAT.

- ✓ Adjustable strength strap
- ✓ Comfortable
- ✓ Perfect for outdoor work
- ✓ Slots for mounting Pixa headlamps
- ✓ Inserts for Vizir



code	Colour	weight	head circumference	price
PETA10CA2	Red	490g	530-630mm	£70.00
PETA10CA0	White	490g	530-630mm	£70.00
PETA10CA3	Black	490g	530-630mm	£70.00
PETA10EAO	Hi-Vis	490g	530-630mm	£80.00

Petzl Vertex

Replaces the Best and the ST A12. A traditional style industrial helmet with no ventilation holes for extra protection. Ideally suited to prolonged or regular work with electricity where the hard shell will safeguard against sparking. Conformity: CE, EN397, EN12492, EN50365, ANSI Z89.1 Type 1 Class E, EAC, AS/NZS 1801: meets all requirements of EN 12492 standard, except the ventilation requirement.

- ✓ Adjustable strength strap
- ✓ Good all-rounder helmet
- ✓ Slots for mounting Pixa headlamps [page 379]
- ✓ Mountings for Peltor Ear Muffs [page 363]
- ✓ Inserts for Vizir



code	Colour	weight	head circumference	price
PETA10AA1	Yellow	495g	530-630mm	£70.00
PETA10AA00	White	495g	530-630mm	£70.00
PETA10AA3	Black	495g	530-630mm	£70.00
PETA10DA00	Hi-Vis	495g	530-630mm	£80.00

Petzl Strato Vent

Lightweight and comfortable the Strato Vent is the perfect choice for all day wear. Large ventilation on the sides of the helmet give a cool airflow to the head, whilst the foam interior gives an impressive strength to weight ratio. Conformity: EN 12 492, ANSI Z89.1 Type I Class C.

- ✓ Adjustable strength strap
- ✓ Lightweight and really comfortable
- ✓ Slots for mounting Pixa headlamps [page 379]
- ✓ Inserts for Vizir



code	Colour	weight	head circumference	price
PETA20BA1	Yellow	425g	530-630mm	£85.00
PETA20DA0	Hi-Vis	425g	530-630mm	£95.00

HELMETS / EYE & EAR PROTECTION

HEAD PROTECTION AT GROUND LEVEL

Standard Industrial Helmet

Made from high density polyethylene with top vents, a rain gutter and a foam sweatband. Pin lock harness adjusts from 530 mm to 630 mm. Conformity: EN 397:1995 + A1:2000.



Supplied white



code	price	10+
SAF010	£7.89	£6.85

Deluxe Safety Helmet

A tough and functional high density polyethylene helmet with top vents, a rain gutter and a foam sweatband. Six-point terylene harness with a ratchet knob for a quick fit. Conformity: EN 397:1995 + A1:2000. ✓ Ratchet knob quickly adjusts fit from 530 mm to 630 mm



Supplied yellow



code	price	10+
SAF014	£10.29	£9.22

ACCESSORIES FOR PETZL HELMETS

VIZIR

Protective eye shield for VERTEX and STRATO Helmets. Mounting inserts for easy installation. Pivots quickly from "work" position to "storage" position on top of the helmet. Scratch and fog resistant. Conformity: CE EN 166, 1BT, ANSI Z87.1, EAC.



code	price
PETA015AA00	£44.00

Reflective and Transparent Stickers

Personalise your helmet with these stickers. Using paint or marker pens directly on our helmets can damage them. These stickers from the manufacturers are suitable for the Petzl Helmets. The transparent stickers can be marked with permanent marker or laser printer.



For Vertex

For Strato

code	description	price
PETA010I00	Page of 36 transparent stickers	£5.00
PETA010MA00	Four precut reflective stickers for Vertex	£7.50
PETA020FA00	Four precut reflective stickers for Strato	£7.50

Foams for Petzl Helmets

We stock replacement foams and machine washable comfort foams to suit the Vertex and Strato helmets. There are replacement pieces for the headband, as well as the crown - both are available as absorbant washable pieces, or standard wipe-down pieces. NB, the non-absorbant crown replacement foams do not come with the additional comfort pads.



Crown replacement foams

Headband

code	description	price
PETA010KA00	Non-absorbant Headband	£5.00
PETA010LA00	Washable Absorbant Headband	£5.00
PETA042MA01	Non-absorbant Crown foam	£6.65
PETA042MA00	Washable Absorbant Crown foam	£6.50

EYE & EAR PROTECTION

EYE PROTECTION

Safety/Sport Spectacles

Face-fitting curve gives maximum protection, comfort and user acceptance. Soft flexible curved temples. Comes supplied with two sets of arms with curved or straight earpeices. Lenses are 4A-coated polycarbonate which is anti-mist, anti-scratch, anti-UV, and anti-static. Conformity: EN 166 1.F [CE Marked] CSA Z94.3 and ANSI Z87.1.



Technical Performance:

- ✓ Impact resistance = 6 mm steel ball at 45 m/sec
- ✓ Visible light transmission = 92% minimum ✓ UV absorption = 99% up to 365 Nm
- ✓ Heat resistance = up to 80°C ✓ Abrasion resistance = EN 166

code	Colour	price	10+
SAFT565BC	Clear	£12.38	£11.15
SAFT565BS	Smoked (sunglasses)	£12.38	£11.15

Scan Direct Vent Clear Goggle

Polycarbonate lens withstands medium energy impacts of up to 120 m/s [270 mph]. CE approved to EN 166 1.



code	price
SCAPPE6DV	£6.00

Pulsafe Vistamax VNC 21 Dual Lens Clear Goggle

Polycarbonate inner lens, chemical resistant acetate outer lens. Fitted with anti-mist condensers for clear viewing. CE approved to EN 166 1 B 345 [Chemical splash, dust and gas].



code	price
SAF031	£9.37

Pulsafe Armamax Overspecs

Clear polycarbonate with an abrasion resistant coating. Can be worn over prescription spectacles. CE marked to CE EN 166:2001.



code	price
SAF030	£7.95

Varionet Safety Glasses

Reading Glasses and Protective glasses in one. Great for detailed working on fiddly jobs. Side protection with anti fog ventilation. Adjustable arms.

Available in: +1.50, +2.00, +3.00, +3.50 lenses.

Specification: Material: Polycarbonate and Nylon. Certification: EN166 FT & ANSI Z87+.



code	Type	price
SAFVH10150	+1.5	£25.00
SAFVH10200	+2	£25.00
SAFVH10250	+2.5	£25.00
SAFVH10300	+3	£25.00
SAFVH10350	+3.5	£25.00

Varionet Hardcase with Hook

Simple case with hook for easy storage.



code

SAFCASE01

price

£4.50

Varionet Clip On Light

Compatible with any glasses, a handy clip on light with simple on/off button. Great in crawl spaces.



code

SAFLED01

price

£4.75

EAR PROTECTION

Scan Ear Defenders

A lightweight general purpose ear muff. Simplified noise reduction rating of 25 dB. Suitable for use in most industries. Easily adjusted. Retains chosen position with a 'twist and lock' mechanism. Manufactured to CE EN 351-1: 2002



PPE

code

SAF004

price

£9.85

Bilsom 303 Series Ear Plugs

Shaped disposable polyurethane-moulded plugs. Gives better protection for longer periods because of higher level of comfort. Noise reduction rating of 29 dB when properly fitted. Always pull the ear up and back when inserting them. Improper fitting will reduce the effectiveness. Conformity: CE EN 352-2.



code

SAF005LD

description

One size only

quantity

200 pairs

price

£27.98

Peltor Helmet Ear Muff

Developed for noise-hazard environments and muffles even extremely low frequencies. Noise reduction rating of [SNR] 30 dB. The sealing rings are filled with a unique combination of liquid and foam giving an optimum seal with low contact pressure providing snug comfort even during long-time use. Only for use with the Petzl Vertex Helmets.

- ✓ Slot attachment with quick mounting without tools
- ✓ Working, airing or park positions
- ✓ Attachment for visor and rain

Note: They clip very easily into place but are a bit of a struggle to get off.



PPE

code

SAF254350

price

£24.45

3M EAR Classic Foam Ear Plugs

The soft energy absorbing polymer foam provides excellent hearing protection and all-day comfort. Noise reduction rating of 28 dB. Improper fitting will reduce the effectiveness. Conveniently packed in pairs. Conformity: CE EN 352-2:1993.



code

SAF254248

description

One size only

price

£0.43

10+

£0.38

Noise Protection

Subjecting your ears to loud noise will eventually effect your hearing. A very loud noise could have an immediate effect but even general noise over a period will be detrimental. In the entertainments' industry staff in a rock concert could be subjected 100 dB, even Wagner's Ring Cycle will achieve over 90 dB. In these environments proper advice should be sought to effectively manage the issue by reducing the exposure.

If the daily or weekly exposure reaches 80 dB the employer must give information on the risks and protection measures to their staff and they must provide ear protectors in good order. If the weekly or daily level reaches 85 dB not only must ear protection be provided but it must be worn.

General purpose ear muffs generally claim to reduce the noise by 20 - 30 dB. However, tests have shown that poor fitting, wearing glasses etc. will probably reduce the manufacturer's claim by about 4 dB.

RESPIRATORS

Nuisance Masks

The Health and Safety Executive warns people not to use "nuisance" dust masks if they are working with harmful dusts. They perform poorly and do not meet basic health and safety requirements. In line with the recommendation of the HSE, Flints does not have these masks listed here as part of the HSE campaign to reduce occupational asthma which affects between 1,500 and 3,000 people every year.

Choosing the Correct Respirator

Our respirators are divided into three categories identified by the colour of the strap or the printing on the valve / respirator:

FFP1 Identification colour:

Low level fine dust/oil- or water-based mists [hand sanding, drilling and cutting]. Should reduce exposure by a factor of 4.

FFP2 Identification colour:

Moderate level fine dust/oil- or water-based mists [plastering, cement, sanding and certain wood dust]. Should reduce exposure by a factor of 10.

FFP3 Identification colour:

Higher level fine dust/oil- or water-based mists [certain pharmaceutical powders, biological agents and fibres]. Should reduce exposure by a factor of 20.

FFP1 RESPIRATORS

3M 9310+ Foldable Dust Respirator

Useful for a wide variety of applications, this single use mask is for low level fine respirable dust. Three panel design and soft cover web for greater comfort and fit. CE EN 149:2001 + A1:2009 FFP1 Assigned protection factor = 4

code	price	20+
SAF079N	£1.39	£1.15

3M 8812 Valved Dust Respirator

Mask for fine dust featuring the unique 3M™ Cool Flow™ valve to improve comfort. Excellent in hot and humid conditions. Sold in a box of 10. CE EN 149:2001 + A1:2009 FFP1 Assigned protection factor = 4

code	description	price
SAF100	Box of 10	£17.50

FFP2 RESPIRATORS

3M 8822 Valved Dust/Mist Respirator

The 3M 8822 respirator is for use in hot and humid environments and where FFP2 level protection is required. Featuring the new 3M™ Cool Flow™ easy-breathing exhalation valve, collapse resistance and stapled straps. Comfortable with its cooler-breathing design. Provides protection against moderate level fine dust, oil- or water-based mists. Sold in a box of 10. CE EN 149:2001 + A1:2009 FFP2 Assigned protection factor = 10

code	price
SAF099	£25.65

3M 8810 Dust/Mist Respirator

Protection against moderate level fine dust, fibres, oil- or water-based mists. Sold in a box of 20. EN 149:2001 FFP2 Assigned protection factor = 10

code	description	price
SAF093	Box of 20	£35.00



FFP3 RESPIRATORS

3M 8835+ Valved Dust/Mist Respirator

The 3M 8835+ respirator provides FFP3 protection - the highest for a disposable respirator. It can be used in most industrial applications where high level protection against fine dust, oil- and water-based mists is required. It has adjustable straps with a 3M Cool Flow™ valve, thermoplastic elastomer face seal and low breathing resistance. Sold in a box of 5. CE EN 149:2001 + A1:2009 FFP3. Assigned protection factor = 20

code	description	price
SAF101N	Box of 5	£39.30



SPECIALITY RESPIRATORS

3M 8825+ Dust, Mist, Metal Fume Respirator

A 3M™ Cool Flow™ valved respirator which is very comfortable to use and suited to many heavy industrial situations such as certain metal fumes, oil or water-based mists and fine dust. Fitted with a soft face seal and adjustable straps. Alasdair's personal choice for sanding. CE EN 149:2001 + A1:2009 FFP2D (D for Dolomite Clogging) Assigned protection factor = 10

code	description	price
SAF095N	Box of 5	£32.15



RE-USABLE RESPIRATORS

3M 7502 Reusable Soft Silicone Mask + 2138 Filters - for welding

This reusable half mask can be fitted with a range of filters via the bayonet connection to adapt the type of protection for the job. We've opted to stock the 2138 filters which combined with the half-face mask filters gives CE EN143 P3R + Nuisance level organic vapour protection. This provides protection against fine dusts, oil or water based mists, as well as nuisance levels of organic vapours and acid gases associated with high energy welding such as MIG and TIG.

code	description	price
SAF102K	7502 Mask + full box of 2138 filters	£46.60
SAF103	2138 Filters	£11.85



3M 4251+ Organic Vapour/Particulate Respirator

These maintenance-free particulate, gas and vapour half mask respirators provide comfortable protection well appreciated by the user. If you are still working with organic vapours this is a good choice of respirator. CE EN 405:2001 + A1:2009 Type FFA1P2RD Provides protection against organic vapours (good warning properties and b.pt. > 65°C), up to 10x Workplace Exposure Limit (WEL) or 1000 ppm, whichever is lower, and 10 x WEL for particulates.

code	description	price
SAF090N	Organic Vapour Respirator	£25.00



RIGGER'S GLOVES

Harken Black Magic Rigger's Gloves

The reputation of these gloves is Olympic level. With modern rope technology making lines ever thinner, you need a helping hand. The double thick palm material sticks to lines with 50% more holding power. No more blisters. Full or three-quarter finger. Fits like a... glove.



Full Finger

Three Quarter Finger

code	description	Type	quantity	price
SAF2563S	three-quarter finger	Small	1 pair	£35.88
SAF2563M	three-quarter finger	Medium	1 pair	£35.88
SAF2563L	three-quarter finger	Large	1 pair	£35.88
SAF2563XL	three-quarter finger	X-Large	1 pair	£35.88
SAF2564S	full finger	Small	1 pair	£39.23
SAF2564M	full finger	Medium	1 pair	£39.23
SAF2564L	full finger	Large	1 pair	£39.23
SAF2564XL	full finger	X-Large	1 pair	£39.23

GS002 Disposable Powdered Latex Gloves

Natural latex gloves lightly powdered with corn starch with an ambidextrous fit. When using solvents such as Acetone, vinyl gloves can degrade whereas latex is unaffected. Specification: Box size: 100 Gloves (50 Pairs).



code	Type	quantity	price
SAFGS0022	Small	1 box of 100	£7.50
SAFGS0023	Medium	1 box of 100	£7.50
SAFGS0024	Large	1 box of 100	£7.50
SAFGS0025	X-Large	1 box of 100	£7.50

Canadian Power Rigger's Gloves

Grey chrome leather palm glove, very supple. Rubberised cuff with vein protection patch. Elasticated back. Palm lined. CE EN 388 intermediate design.



code	quantity	price	12+
SAF151	1 pair	£3.40	£3.08

SUP 65 Rigger's Gloves

Good quality pigskin glove, very supple. The 2 1/2" rubberised cuff has an integral vein patch. Chemical resistant. Size 10. BS EN 388:1994.



code	quantity	price	12+
SAF150	1 pair	£11.99	£10.79

Welder's Gauntlets [T10]

Multipurpose heavyduty gloves suitable for welding [MMA, MIG, Plasma].



code	quantity	price
MET045101	1 pair	£9.30

WORK GLOVES

Black Puggy 2000 PU-Coated Safety Gloves

Alasdair says "I hate wearing gloves but was introduced to these Puggys in Oban whilst sticking plasters on my fingers after the sandpaper had worn the skin off them. The Puggys fitted perfectly and really improved my grip with hardly any loss of feel, you can even type in them! They can be used for a whole range of tasks but I particularly like to use these for hand sanding. Great Value!" Conformity: EN 388 4131 [The last 4 digits are scores for mechanical hazard tests [EN388]. Performance level is on a scale of 1 - 4, the higher the number the better. (A) Abrasion Resistance = 4, (b) Blade Cut Resistance = 1, (c) Tear Resistance = 3, (d) Puncture Resistance = 1.
✓ Nylon glove ✓ Polyurethane palm coating
✓ Machine knitted ✓ Integral elasticated wrist



code	Type	size	quantity	price
SAFPUGMB	Medium	8	1 pair	£1.30
SAFPUGLB	Large	9	1 pair	£1.30
SAFPUGXLB	X-Large	10	1 pair	£1.30

Hi-Grip Gloves

PVC criss-cross coating on a knitted base. Elasticated wrist. As its name implies, gives good grip assistance. EN 388 Cat 2.



code	quantity	price
SAF160	1 pair	£1.61

Cotton Drill Gloves

White cotton drill with knitted wrist and brushed lining. Essential kit for crew handling white scenery. For Podgers see pages 338-344.



code	quantity	price	12+
SAF192	1 pair	£1.54	£1.39

Rubber Gloves

Strong, sensitive, cotton flock-lined natural rubber gloves. Excellent wet handling. Conforms to USDA standards and is 21 CFR 177-2600 compliant for food handling.



code	Type	quantity	price	12+
SAF177	Small	1 pair	£2.54	£2.29
SAF178	Medium	1 pair	£2.54	£2.29
SAF179	Large	1 pair	£2.54	£2.29

Disposable Vinyl Gloves

Clear, economical, thin vinyl gloves without seams. Fits either hand. Comes powdered. You've just got to remember to put them on before you get yourself covered in oil. Wear them under a pair of Puggys to extend their life. Sold in boxes of 100 [50 pairs]. For Barrier Cream see page 388.



code	Type	size	quantity	price
SAF658025S	Small	6 1/2	1 box of 100	£9.95
SAF658025M	Medium	7 1/2	1 box of 100	£9.95
SAF658025L	Large	8 1/2	1 box of 100	£9.95
SAF658025XL	X-Large	9 1/2	1 box of 100	£9.95

HAND PROTECTION

DIRTY RIGGER GLOVES

Dirty Rigger gloves combine durability and comfort with style to produce quality products. They use the best possible materials to create gloves that provide unbeatable protection whilst remaining light and flexible for maximum dexterity. All gloves come with writeable ID tags and an eyelet on the cuff.

Comfort Fit Rigger Glove

A light and flexible glove that will protect hands from moderate manual work. Designed with comfort in mind, breathable materials and a snug fit move with your hands as you work and minimise snagging. A double layer of synthetic leather on the palm and other key areas of wear combine with double stitching to make this an incredibly durable glove.

- ✓ Full finger style for extra protection
- ✓ Lightweight and flexible for all-day comfort
- ✓ Snug Fit to minimise snagging
- ✓ Double-layered synthetic leather on palm
- ✓ High-density foam padding in key areas
- ✓ Double stitched seams



code	Type	price
FHSDRFFSN	Small	£19.35
FHSDRFFMN	Medium	£19.35
FHSDRFFLN	Large	£19.35
FHSDRFFXLN	X Large	£19.35
FHSDRFFXXLN	XX Large	£19.35

SlimFit Framer Glove

A perfect fit for smaller hands without compromising on function. In a framer style for better access for intricate tasks and touchscreens, the SlimFit is breathable and light for all day comfort and uses

- ✓ 4-way stretch materials to move with your hands as you work.
- ✓ Designed for smaller hands
- ✓ Framer finger design for accessibility
- ✓ Light and flexible for all day comfort
- ✓ Snug fit to minimise snagging
- ✓ Easy-on pull tab



code	Type	price
FHSDRFRSXXSN	XX Small	£19.60
FHSDRFRXSXSN	X Small	£19.60
FHSDRFRSSN	Small	£19.60

Comfort Fit Framer Rigger Glove

Like the Comfort Fit Rigger Glove but with a framer finger design, allowing easy access for intricate tasks and touchscreens by exposing the tips of your thumb, middle and index finger.

- ✓ Framer finger design for accessibility
- ✓ Lightweight & Flexible for all-day comfort
- ✓ Snug Fit to minimise snagging
- ✓ Double-layered synthetic leather on palm
- ✓ High-density foam padding in key areas
- ✓ Double stitched seams



code	Type	price
FHSDRFRSN	Small	£19.35
FHSDRFRMN	Medium	£19.35
FHSDRFRLN	Large	£19.35
FHSDRFRXLN	X Large	£19.35
FHSDRFRXXLN	XX Large	£19.35

Rope Ops Rope Glove

Especially designed for handling rope, these gloves provide abrasion resistance and fly control through an articulated rope channel. The gloves palm is supported by goat skin leather, adding extra resistance to abrasion caused from dealing with rope, and a breathable back provides ventilation and added comfort.

- ✓ Articulated Armortex rope channel
- ✓ Double stitched seams
- ✓ 3D high-ventilation glove back
- ✓ Abrasion resistant goat skin leather palm



code	Type	price
FHSDRROSXSN	XX Small	£32.07
FHSDRROMXSN	X Small	£32.07
FHSDRROLXSN	Small	£32.07
FHSDRROXLN	Large	£32.07
FHSDRROXXLN	X Large	£32.07
FHSDRROXXLN	XX Large	£32.07

PROTECTIVE CLOTHING

Disposable White Overalls

Tyvek Protech. Made from a non-woven spun bonded polyolefin which forms a dense shield that holds out liquid and particles. Even when wet, the surface of Tyvek is resistant to tears, punctures and abrasions. EN14126:2003 Type 5B & 6B.



code	Type	price	10+
SAF120	Small	£6.66	£6.31
SAF121	Medium	£6.66	£6.31
SAF122	Large	£6.66	£6.31
SAF123	X-Large	£6.66	£6.31

Hi-Vis Waistcoat

Made from 100% polyester, this high visibility yellow sleeveless waistcoat features velcro fastenings and reflective tape panels. Ideal for outdoor events, helps distinguish staff from public. Great for cyclists too. Conformity: EN 471 Class 2.



code	Type	chest size	price
SCAWWHVWM	Medium	40"	£4.83
SCAWWHVWL	Large	42"	£4.83

Hi-Vis Motorway Jacket

High visibility yellow foul weather jacket made from 100% polyester with a PVC waterproof coating and a quilted nylon lining. They feature heavy zip fastenings, stud fastened storm flaps, concealed hood with drawstring and reflective tape. Conformity: EN 471 Class 3, EN343 Class 3. [Trousers: EN471 Class 1].



code	description	size	price
SCAWWHVMJM	Jacket	Medium	£33.85
SCAWWHVMJL	Jacket	Large	£33.85
SCAWWHVMJXL	Jacket	X-Large	£33.85
SCAWWHVMTM	Trousers	34-36" waist	£18.34
SCAWWHVMTL	Trousers	38-40" waist	£18.34

Site Safety Kit

A selection of site essentials economically priced. Consisting of a Deluxe Safety Helmet, Scan Direct Vent Goggles, 10 pairs of 3M Foam ear plugs, a pair of Canadian Power Rigger's Gloves, 2 pairs of black Puggy Gloves, Scan Chukka work boots and a Hi-Vis waistcoat all in a canvas tool bag.

Boots available in sizes 6 - 12 [no half sizes]. When ordering please substitute the XX with your boot size [use 08, 09, etc].

code	description	price if bought separately	Tradeline
SAFSSKMXX	Medium waistcoat and boots	£58.61	£43.79
SAFSSKLXX	Large waistcoat and boots	£58.61	£43.79
SAFSSKEB	Medium waistcoat excluding boots	£31.42	£25.48
SAFSSKEBL	Large waistcoat excluding boots	£31.42	£25.48

APRONS

Carpenter's Apron

A traditional bib-style carpenter's apron manufactured from quality linen. Twin front pockets with tie straps. Machine washable. One size fits all.



code	price
FAICA	£8.75

Professional Welding Apron

A tough leather apron with pouches which will withstand sparks and touching against hot metal. For Welder's Gauntlets and other Welding Equipment see page 311.



code	price
MET045217	£35.90

KNEE PADS

Irwin Gel Knee Pads

Non-marring professional quality. These Irwin knee pads are designed to put maximum protection where it is needed most. The built-in flexibility of Irwin knee pads provides long-lasting comfort, so nothing gets in the way of getting the job done. Embedded I-Gel insert provides maximum impact resistance. The non-marring cap will not damage surfaces.



code	Type	quantity	price
SAFIRW10503830	Heavy-duty	1 pair	£34.00

Ergodyne Wide Soft Knee Pads

Economical light duty knee protection for a range of applications. Made from 12 mm of NBR foam padding with a durable polyester fabric cover.



code	Type	quantity	price
ERG18231	Light-duty	1 pair	£17.15



PROTECTIVE CLOTHING / FIRST AID

SAFETY FOOTWEAR

Dual Density Chukka Boots

A multi-purpose boot that is popular with users in the construction and engineering industries. Conformity: EN 345-SIP.

- ✓ Grained leather uppers with resistance to abrasion
- ✓ Polyurethane soles for strength and durability
- ✓ Padded ankle collars for extra comfort
- ✓ Steel toe caps with 200 joule rating
- ✓ Steel mid sole
- ✓ Lace fastening with the 8 D-ring system
- ✓ Great value

Available in sizes 6 - 12 [no half sizes].



code	boot size	price
SAFSCAFWCHUK6	6	£27.19
SAFSCAFWCHUK7	7	£27.19
SAFSCAFWCHUK8	8	£27.19
SAFSCAFWCHUK9	9	£27.19
SAFSCAFWCHUK10	10	£27.19
SAFSCAFWCHUK11	11	£27.19
SAFSCAFWCHUK12	12	£27.19

Apprentice Boots

The Dewalt Apprentice Boot has premium quality wheat-coloured nubuck and full grain leather uppers and is lightweight and hardwearing. The insoles are antibacterial with a shock absorbing dual density seat region. They are manufactured to CE EN ISO 20345 with the safety rating SB.

- ✓ 200 Joule steel toe cap
- ✓ EVA rubber sole heat resistant to 300° C
- ✓ Chemical resistant sole
- ✓ Oil resistant sole, slip rating: SRA

Available in sizes 3 - 12 [no half sizes].



code	boot size	price
SAFDEWAPPRENT6	6	£82.88
SAFDEWAPPRENT7	7	£82.88
SAFDEWAPPRENT8	8	£82.88
SAFDEWAPPRENT9	9	£82.88
SAFDEWAPPRENT10	10	£82.88
SAFDEWAPPRENT11	11	£82.88
SAFDEWAPPRENT12	12	£82.88

VAT on Helmets and Work Boots

They must be made to the appropriate European or British Standard, bear a mark indicating the standards, and be for industrial use. They must not be supplied to persons for use by their employees. As an individual purchasing the appropriate helmet or work boot for industrial use you may be entitled to zero-rating. Visit www.customs.hmrc.gov.uk for full details. We will ask you to sign a form if you would like to claim zero-rating on these products. The form can be downloaded at www.flints.co.uk/downloads.

FIRST AID

The contents of the following First Aid Kits meet the requirements as specified in the HSE Approved Code of Practice. The practice states "An employer should make an assessment of the first aid needs appropriate to the circumstances of each workplace". To assist in selecting the appropriate kit we recommend the following employee ratios as guidance provided by the British Healthcare Trade Association.

Statutory First Aid Kits

Compact First Aid Kits for workplaces or venues supplied in a briefcase style box.

NEW

Kit suitable for workplaces/venues for 1 - 25 persons contains:

- 1 x CoolTherm Burn Relief Dressing 10 x 10cm
- 2 x Single Use Triangular Bandages 90 x 127cm
- 40 x Assorted Waterproof Plasters
- 2 x Medium Sterile HSE Dressings 12 x 12cm (unboxed)
- 2 x Large Sterile HSE Dressings 18 x 18cm (unboxed)
- 1 x Conforming Bandage 7.5cm x 4m
- 1 x Finger Dressing with Adhesive Fixing 3.5cm
- 2 x Sterile Eye Pad Dressing no.16 with Bandage (Flow Wrapped)
- 1 x Microporous Tape 2.5cm x 5m
- 20 x Cleansing Wipes
- 1 x Pair of Small Universal Shears 6in
- 1 x Adult Sized Foil Blanket 130 x 210cm
- 6 x Pairs of Nitrile Gloves
- 1 x Rebreath Mouth to Mouth Resuscitation Device with Valve
- 1 x First Aid Guidance Leaflet

Kit suitable for workplaces/venues for 1 - 100 persons contains:

- 2 x CoolTherm Burn Relief Dressings 10 x 10cm
- 3 x Single Use Triangular Bandages 90 x 127cm
- 60 x Assorted Waterproof Plasters
- 4 x Medium Sterile HSE Dressings 12 x 12cm (unboxed)
- 3 x Large Sterile HSE Dressings 18 x 18cm (unboxed)
- 2 x Conforming Bandages 7.5cm x 4m
- 3 x Finger Dressing with Adhesive Fixing 3.5cm
- 3 x Sterile Eye Pad Dressing no.16 with Bandage (Flow Wrapped)
- 2 x Microporous Tapes 2.5cm x 5m
- 30 x Cleansing Wipes
- 1 x Pair of Small Universal Shears 6in
- 2 x Adult Sized Foil Blankets 130 x 210cm
- 9 x Pairs of Nitrile Gloves
- 1 x Rebreath Mouth to Mouth Resuscitation Device with Valve
- 1 x First Aid Guidance Leaflet



code	description	price
SAFK125BS	First Aid Kit 1-25 Persons	£32.83
SAFK100BS	First Aid Kit 1-100 Persons	£38.67

Assorted Sterile Plaster Packs

Hypoallergenic blue waterproof plasters or fabric plasters with non-stick cushioned pads. Supplied in a hard plastic cases. 120 plasters per pack of assorted sizes.



NEW

code	description	price
SAFPLACAT	Waterproof Blue Plasters 120 Pcs	£8.13
SAFPLAFAB	Fabric Plasters 120 Pcs	£8.13

Emergency Eyewash Station

Workplace essential Eye Wash Station for irrigating eyes in emergency situations. Supplied in a blue kit box with large eye symbol for easy identification.

This kit contains:

- 2 x Saline Eye Wash 500ml
- 2 x No.16 Sterile Eye Pad Wound Dressing
- 2 x Eye Wash Pods

Eye wash refill available separately



NEW

code	description	price
SAFAKEYE	Eye Wash Station	£23.34
SAFAKREF	Refill 500ml	£3.90