

**RendSafe**  
Remote Solutions

**DEMINING BOOTS**

Product code: IA-001 Price \$709.00



Protection for charges up to 56g C4  
Upper material grain leather  
Double thermal toe puff  
20mm Rubber sole combined with ballistic material

# RendSafe

Remote Solutions

RendSafe (Pty) Ltd. Postnet Suite 119, Private Bag X16, Hermanus, WC 7200, South Africa.

Tel +27 (0) 0825655655, Fax +27 (0) 866153650, Email: [info@rendsafe.com](mailto:info@rendsafe.com)

## Fitting, using, and maintaining the standard Rendsafe full-face blast visor.

The standard Rendsafe full-face blast visor is made using 5mm untreated polycarbonate sheet, as required in the UN's International Mine Action Standards (IMAS). It is usually supplied with a 1mm polycarbonate scratch-guard which you should replace when it becomes damaged. The headframe supplied will be either the "standard" or the "comfort" model. Both are made using durable and washable polyamide and are adjusted to fit using Velcro straps. The headframe includes a padded forehead strip that should be removed and washed regularly.



### Fitting the visor

1. Ensure that the bolts holding the visor to the head-frame are just loose enough to allow the visor face to be moved.
2. Adjust the Velcro strap over the top of the head so that the headband rests near the top of your forehead.
3. Fasten the Velcro strap(s) at the rear of the headframe.
4. Position the visor face so that it hangs straight down, then tighten the bolts holding the visor to the headframe. These are M8 nuts and bolts, and should be tightened using a 13mm spanner (key). The visor face should be impossible to raise during use.

SD Part no.: SKU1010

### Caring for the visor

Polycarbonate provides good blast protection because it is flexible. Unfortunately, this means that it is also soft and easy to scratch. Polycarbonate can be hardened to resist scratching, but this prevents it bending and stops it providing appropriate protection (see IMAS 10.30). To overcome the problem of accidental scratching, the SD visor is supplied with a thin (1mm) outer scratch-guard. This can be replaced at very low cost when it becomes scratched (SD Part no.: SKU1009). To avoid accidental scratching, the visor should never be put face-down on any surface.

Polycarbonate can also be hardened by leaving it in the sun for long periods (UV hardening). To prevent this, SD recommends that visors should be stored in the soft bag supplied with each visor whenever they are not actually being worn. Keep the inside of the bag very clean. Shake out any dust that may have entered because dust can scratch the visor. Extremes of heat can also affect the polycarbonate, so, store visors in a cool, dark place away from heat and moisture.

When a visor becomes dirty, wash it with warm water. Do not use solvents, polishes, detergents, or rags with a coarse weave that may scratch. If the visor is very dirty, using mild hand-soap with the warm water and a soft sponge or lint cloth should be safe, but do not rub hard at any time! Rinse the clean visor with water and leave it to drain-dry, or dry it gently with a soft lint cloth.

When you are transporting visors, pack them carefully to avoid them moving around. The visor bolts may damage a visor alongside if they are thrown together as a vehicle moves over bad roads.

*Because visors must be worn in the sun, and will become scratched no matter how careful you are, SD recommends that you follow the IMAS guidelines and replace visors annually (see [http://www.mineactionstandards.org/tnma/TN\\_10.10\\_02\\_2004\\_General\\_Safety.pdf](http://www.mineactionstandards.org/tnma/TN_10.10_02_2004_General_Safety.pdf) )*

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## Platinum full-face visor for humanitarian demining

The new (December 2009) lightweight Platinum RendSafe Pty Ltd full-face blast visor is 20% lighter than our popular traditional model. Both are made using 5mm untreated polycarbonate, as required in the UN's IMAS 10.30. Both can be supplied with a 1mm polycarbonate scratch-guard.

The head-frame supplied is our latest "comfort" model (design registered®) with two Velcro fixing straps across the back of the head. The head-frame includes a padded forehead strip that should be removed and washed regularly.

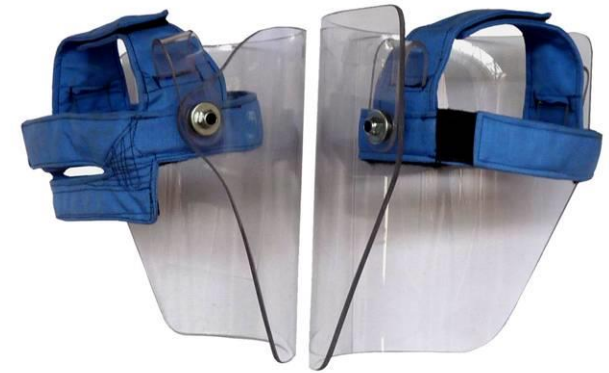
If there is too much pressure on the sides of your head, the user can remove the visor bolts and reposition the head-frame supports on the outside of the visor. This makes the frame a full 2cm wider. The Nylock® fixing bolts should be tightened after adjustment so that it is not possible to lift the visor face during use.

Your organisation's logo (one colour) can be printed onto the visor at no extra cost.

SD Part no.: SKU1011



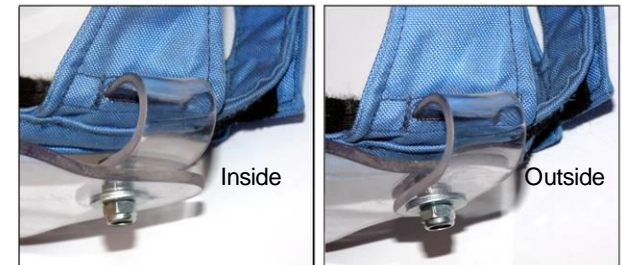
Creative trimming has reduced weight and helped to increase stability and comfort.



The Platinum visor alongside the traditional full-face visor.



Our "Comfort" head-frame® has double straps at the rear to increase stability.



The frame can be attached inside or outside the visor. When outside, the frame is wider to allow for those with wide heads.

*Because visors must be worn in the sun, and will be scratched no matter how careful you are,  
Rendsafe recommends that you follow the IMAS guidelines and replace visors annually\*.*

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## Standard full-face visor for humanitarian demining

The Rendsafe standard full-face visor is believed to be the most used facial protection in humanitarian demining worldwide. We have sold more than 20,000, supplying several equipment suppliers (under their Logo) and selling to many demining groups direct.



The standard SD full-face blast visor is made using 5mm untreated polycarbonate sheet, as required in the UN's International Mine Action Standards (IMAS. 10.30 Second Edition Amendment 4, June 2013). It is usually supplied with a 1mm polycarbonate scratch-guard which you should replace when it becomes damaged. The head-frame supplied can be either our "standard" or the "comfort®" model. Both are made using durable and washable polyamide and are adjusted to fit using Velcro® straps. The headframe includes a padded forehead strip than should be removed and washed regularly.

The head-frame and visor face should be adjusted so that the visor hangs straight down, then the bolts should be tightened. Nylock® nuts are used because the visor is not designed to be raised during use.



SD Part no.: SKU1010

All standard visors are stamped with a number for easy visor management. Your organisation's logo (one colour) can be printed onto the visor at no extra cost.

*Because the properties of polycarbonate are degraded by sunlight, and because visors will become scratched no matter how careful you are, Rendsafe recommends that you follow the IMAS guidelines and replace visors annually (see <https://www.mineactionstandards.org/fileadmin/MAS/documents/standards/IMAS-10-30-Ed2-Am4.pdf>)*

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## SDABS Helmet Visor for Humanitarian Demining

The SD Ultra-Light Weight Helmet Visor is manufactured by vacuum forming light weight but tough ABS plastic. This product has been specifically designed as a head support for our range of HD visors. It is unique in that our existing polyamide visor headframe becomes an integral part of the helmet, thus maintaining the comfort and ease of use that render our visors amongst the most widely used in the world.



As with our other face visor products, it is supplied in a protective bag and includes a removable and washable sweatband within the helmet support

structure. This product has been successfully blast tested against 240g of TNT according to IMAS guidelines. Although the helmet is probably the lightest in weight of any used in Humanitarian Demining it can successfully support the weight of a small adult standing on its crown.

### Contact:

Email: Suzanne Richards

[suzanne@rendsafesolutions.com](mailto:suzanne@rendsafesolutions.com)

Tel: +27836030415

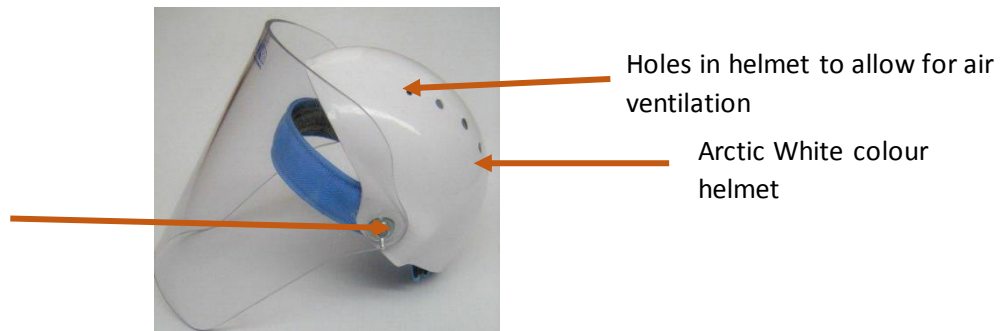
[www.rendsafesolutions.com](http://www.rendsafesolutions.com)

### Key Characteristics of our Helmet Visor include:

- **Ultra-Light Weight:** The non-ballistic ABS material is tough but extremely lightweight, with the helmet only weighing approximately 180g. The complete visor weight will depend on the style of the visor ordered.
- **Comfortable:** The helmet provides a visor mount that helps keep the head shaded and ventilated.
- **Versatile:** Can be used with either a standard visor or a platinum visor.
- **Arctic White Colour** reflects heat to keep wearer cool

As stated above the SD helmet is made as a head support for our range of HD Visors. All HD visors are manufactured using 5mm untreated polycarbonate which is strong, flexible and blast resistant according to IMAS 10.30. All HD visors can be fitted with either a standard head frame or a comfort head frame upon request.

Visor Headframe and helmet fixing



Helmet Visor Side View

The fixings are made from heat-formed polycarbonate, which provides durability and flexibility. The nylock® nuts used to fasten the visor to the head-frame should be tightened so that the visor cannot be raised during use. Headframes are made from durable and washable polyamide and includes a padded 'sweat band' that may be removed for washing.





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## **Helmet Visor for humanitarian demining**

Lightweight, vented ABS plastic helmet offering excellent protection and rigidity.

Accessories slot and chin strap attachment point.

High die-electric strength and UV inhibitor to protect and extend helmet lifespan.

Front antiglare peak with contoured rain channel offering side impact protection.

One handed ratchet adjustable shock absorbing suspension quick fit, with advanced permasweat breathable sweatband.

Supporting ridge for cap attachment spring.



[www.rendsafesolutions.com](http://www.rendsafesolutions.com)

**NOTE:** Like most other PPE, SD armour is designed to be water-resistant. Users should avoid getting the core of any armour wet because this can reduce the protection it offers. If the core of armour gets wet, allow the garment to dry naturally before use. Do not tumble-dry or expose to heaters.

## Half visor

It was designed for use by dog handlers or supervisors who need to make clear and unobstructed voice commands. With the recent revisions to (International Mine Action Standards (IMAS. 10.30

Second Edition Amendment 4, June 2013). IMAS 10.30, it can now be used by any deminer when the risk-assessment allows this. It may, for example, prove popular as an alternative to goggles worn by deminers standing to excavate using rakes. The SD

Half-visor is made using 5mm untreated polycarbonate and meets the requirements of IMAS 10.30 (2013). It can be made Long or Short – as shown in the photograph on the right. The longer version covers more of the wearer's forehead. Please specify long or short when ordering.

Each visor is numbered for identification and replacement purposes. The complete Half visor and head-frame weighs around 500g).

The half-visor can be fitted to a [Comfort head-frame®](#) that is made from polyamide for durability. The fixings are made from heat-formed polycarbonate, which provides durability and flexibility. The nylock® nuts used to fasten the visor to the headframe should be tightened so that the visor cannot be raised during use.

An optional Scratch-guard [SKU1019] is available. This is a thin sheet of polycarbonate that mounts securely over the half-visor to protect it from scratches during use, storage, and transport.



The visor face can be bolted inside or outside the head-frame wings, so accommodating broader heads.



Your organisation's logo (one colour) can be printed onto the Half-visor at no extra cost.

***Because visors must be worn in the sun, and will be scratched no matter how careful you are, SD recommends that you follow the IMAS guidelines and replace visors annually***

<https://www.mineactionstandards.org/fileadmin/MAS/documents/standards/IMAS-10-30-Ed2-Am4.pdf>

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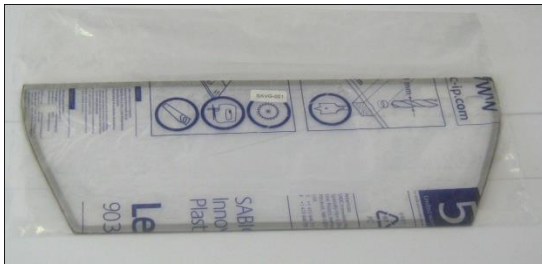
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## ADHESIVE VISOR GUARDS

The Security Devices Adhesive Visor Guard (AVG) was developed at the request of a customer for use in conditions where the ingress of very fine dust into PPE is a continual challenge.

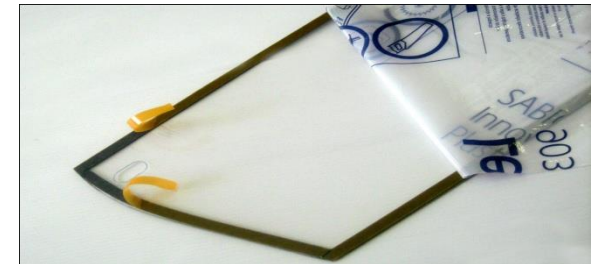
As with our standard Visor Scratch Shield it is made from 0.75 or 1.00mm thick untreated polycarbonate sheet. However instead of using single sided foam tape as a stand-off gasket from the main visor surface, the AVG uses a specialized Ultra High Bond (UHB) double sided adhesive tape to maintain better contact with the outer curve, especially at the sides of the main visor near the fixing bolts. As before the AVG can be removed and replaced as necessary.



AVG as shipped in protective packaging



One layer of protective foil removed prior to fitting



The UHB Tape protective layer is lifted slightly from one side of each section.



The AVG is fitted to the main visor with securing bolts that are only partially tightened.



The AVG tape foil are removed in place and the shield is pressed onto the visor surface to secure adhesion. The bolts and head frame are secured as per our visor instruction sheet to ensure that the visor cannot be raised.



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## **Body-armor apron for humanitarian demining**

The RendSafe body-armor (NATO STANAG 2920 V50 – 450m/s) is versatile enough for deminers and supervisors, providing vital area protection whether walking around or excavating anti-personnel mines. The design is simple and effective.

The body-armor can be worn short or long, depending on your activity at the time. Adjustment is as simple as unfastening a Velcro tab.

With a multi-layer aramid inner covered by a removable washable cover, it weighs 2.5kg complete with a polycarbonate chest insert that brings vital area protection above 450 m/s.

The ventilated Cordura back does not provide protection, but does ensure that the weight rests on the shoulders and so increases comfort.

A large collar interfaces with the SD full-face visor, so providing assured frontal protection in line with IMAS 10.30.



SD Part no.: SKU2014



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## Hawk body-armor apron for humanitarian demining

Always aiming to achieve comfort and value for money, our Hawk body-armor (NATO STANAG 2920 V50 – 450m/s) is versatile enough for deminers and supervisors, providing vital area protection whether walking around or excavating anti-personnel mines. It is lighter and more comfortable than alternatives and includes several special design features.

The Hawk body-armor can be worn short, medium or long, depending on your activity at the time. Adjustment is as simple as unfastening a Velcro tab.

With a multi-layer Kevlar/aramid inner covered by a removable washable cover, it weighs a mere 2.5kg.

The shoulder-straps are partly elasticated. After adjustment to suit the individual, they need not be undone again.

The Hawk includes genital-protection that can be worn when wanted, and folded away inside the armor cover when it is not wanted.

**Contact:**  
Email: [info@rendsafe.com](mailto:info@rendsafe.com)







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Tel +27 (0) 0825655655, Fax +27 (0) 866153650, Email: [info@rendsafe.com](mailto:info@rendsafe.com)

## Kestrel body-armor apron for humanitarian demining

Our Kestrel body armour (NATO STANAG 2920 V50 – 450m/s) is lightweight and comfortable, providing vital area protection whether standing or kneeling to excavate anti-personnel mines. The weight is carried on the hips, with the fold-down flap hanging over the thighs with shaped inserts so that leg straps are not needed. Protection for the genitals can be folded back inside the armour cover when not wanted.

A generous chest pocket and a shoulder strap for clipping a radio make the armour suitable for deminers or supervisors.

The collar has been designed to interface with our SD Platinum visor or the SD Mask Visor, but can also be used with our Standard visor or Half visor. The small upright collar allows the wearer an easier view of their feet without compromising safety.

With a multi-layer Kevlar/polyamide inner covered by a washable Cordura® textured nylon outer that is exceptionally longlasting and resistant to tears and abrasions, the SD Kestrel armour weighs less than 2.9kg. The cover is removable and washable, so can be replaced at a later time. A variant with a protected back is available on request.

Colours may vary between dye lots.



The collar interfaces closely with our long visors when looking down.

The apron flap is shaped over the front of the thighs.



Apron flap in down position



SD Part no.: SKU2017



The Kestrel's (design-registered) genital protection can be folded inside the main chest panel of the armour when it is not wanted. It can be used whether the apron-flap is up or down.

**Contact:**

Email: [info@rendsafe.com](mailto:info@rendsafe.com)

Tel: +27836030415

[www.rendsaf.com](http://www.rendsaf.com)

**NOTE:** *Like most other PPE, SD armour is designed to be water-resistant. Users should avoid getting the core of any armour wet because this can reduce the protection it offers. If the core of armour gets wet, allow the garment to dry naturally before use. Do not tumble-dry or expose to heaters.*

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## Kestrel Mk2 body-armor apron for humanitarian demining

At a customer's request, we have modified the Kestrel Mk1 and come up with something rather different. Still meeting the IMAS requirements and with a NATO STANAG 2920 V50 of 450m/s), the Kestrel Mk2 is exceptionally light and comfortable, providing vital area protection whether standing or kneeling to excavate anti-personnel mines.

The weight is carried on the hips, with the fold-down flap hanging over the thighs. Our SD design-registered shaped inserts over the thigh mean that leg straps are not needed. Leaving the apron unfastened on the legs increases comfort whether walking or kneeling/squatting.

A generous chest pocket and optional shoulder straps for clipping a radio make the armour suitable for deminers and supervisors.

The apron flap is intended to be raised when walking about, and down when excavating a device.

The collar has been designed to interface with our visor range. By making a small, upright collar we allow the wearer an easier view of their feet without compromising safety.

With a multi-layer Kevlar/polyamide inner covered by a washable Cordura® textured nylon outer that is exceptionally longlasting and resistant to tears and abrasions, the SD Kestrel armour weighs approximately 2.8kg

(medium size). The cover is removable and washable, so can be replaced at a later time. A variant with a protected back is available on request.



The collar interfaces closely with our long visors when looking down.



SD Part no.: SKU2019



A broad padded belt carries the weight on the hips. The apron flap is shaped over the front of the thighs.

Colours may vary between dye lots.

**Contact:**

Suzanne Richards

Rendsafe Pty Ltd

+27836030415

[www.rendsafes.com](http://www.rendsafes.com)

Simple to put on and take off, one specialist has described it as “***the most comfortable armour on the market***”.

**NOTE:** *Like most other PPE, SD armour is designed to be water-resistant. Users should avoid getting the core of any armour wet because this can reduce the protection it offers. If the core of armour gets wet, allow the garment to dry naturally before use. Do not tumble-dry or expose to heaters.*

## Lanner body-armour apron for humanitarian demining

**IMAS 10.30 Compliant (Tested according to STANAG 2920 V50 = 450m/s)**

**(Also available in 600 m/s versions)**

The Lanner Apron is exceptionally light and comfortable, providing vital area protection whether standing or kneeling to excavate anti-personnel mines.

The weight is carried on the hips, with the fold-down flap hanging over the thighs. Our SD design-registered shaped inserts over the thigh mean that leg straps are not needed. Leaving the apron unfastened on the legs increases comfort whether walking or kneeling/squatting.

A side pocket and shoulder strap for clipping on a radio and holding a small trauma kit, make the armour suitable for both deminers and supervisors.

The apron flap is intended to be raised when walking and lowered when excavating a device.

The collar has been designed to interface with most visor designs. By making a double, upright collar we allow the wearer an easier view of their feet without compromising safety.

The armour uses a multi-layer Kevlar/polyamide inner covered by a washable, high tenacity, textured nylon outer that is exceptionally longlasting and resistant to tears and abrasions.

The Lanner includes between the legs genital protection that can be worn when wanted, or folded away inside the armour cover when not required.

An extraction strap between the collars is provided for rapid removal in case of an accident.

Optional arm and leg protection is available as shown .

Top end spacer fabric is used on the shoulders and collar to make the apron cooler and more comfortable to wear.



The cover is removable and washable, and so can be replaced at a later time. A variant with a protected back is available on request.

Colours may vary between dye lots.

[www.rendsafes.com](http://www.rendsafes.com)

#### Technical specifications

Core: DuPont Kevlar® with water repellent coating.

Cover: High tenacity textured nylon, water repellent treated and PU coated.

(MIL Spec: MIL-C43734D, 370g/m<sup>2</sup>)

IMAS: Fully IMAS compliant (IMAS 10.30)

Spacer fabric: Coolmax® or equivalent.

**NOTE:** *Like most other PPE, SD armour is designed to be water-resistant. Users should avoid getting the core of any armour wet because this can reduce the protection it offers. If the core of armour gets wet, allow the garment to dry naturally before use. Do not tumble-dry or expose to heaters.*

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## Raptor body-armour apron for humanitarian demining

The RendSafe Raptor demining body-armour is a refinement of our popular (and still widely used) MK 1 and SADEC Aprons. This simple apron extends protection over the deminer's frontal thighs while being easy to walk and kneel in. It is designed to make it easy to keep the apron between the deminer and the mine even if the deminer squats and twists to work from the side. When kneeling to excavate, the apron can be made to extend to the ground and provide full frontal coverage.

Unusually, this apron has two collars, one inside the visor and one outside. This ensures an interface between visor and apron even if the deminer is lying down - and while lying down is rare, it is sometimes appropriate. Shoulder pieces allow full arm movement while protecting the vulnerable underarm areas.

With a multi-layer polyamide inner covered by a washable outer designed to be exceptionally long-lasting and resistant to abrasions, tears and scuffs, it weighs approximately 3.9kg complete with a polyamide chest insert that brings vital area protection above the IMAS requirement of STANAG 2920 450 m/s.

The Raptor's open back and minimal straps make it comfortable and relatively cool. It is adjusted to fit using simple webbing straps and clips.

It is stated in the conclusions of independent SADEC tests conducted in 2001 that "The [SD] MK1 Apron was shown to be capable of withstanding the blast of a detonating PMD-6 wooden anti-personnel blast mine and a PMN blast mine with an ADDITIONAL 200g charge at 30 cm." That is a total of 640g TNT at 30cm, which does not surprise us, but often surprises our customers.



SD Part no.: SKU2012







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## SD 450 demining body-armour apron

Our popular SD 450 demining body-armour (NATO STANAG 2920 V50 – 450m/s) extends tailored protection over the deminer's frontal thighs while still being comfortable to walk and kneel in.

With a multi-layer Kevlar/aramid inner covered by a removable washable cover, it is lighter than many alternatives (3.4kg).

The design includes a useful chest pocket - because access to other pockets is restricted after the apron is fastened.

Designed to interface with the SD Visor, the collar overlaps the visor when looking down, but allows full head movement side-to-side when looking up.



SD Part no.: SKU2015

