



**Your safety is our priority**  
**[www.sip-protection.com](http://www.sip-protection.com)**

## “POSING AT THE END OF THE DAY”

A nice picture from our archives. Despite the long lifetime of our trousers, we suspect you might need another pair by now.



If you recognize yourself and can prove that you are one of these people, please contact us at [info@sip-protection.com](mailto:info@sip-protection.com), and we'll provide you with free pair of SIP® Protection trousers of your choice.

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[info@sip-protection.com](mailto:info@sip-protection.com)



**SIP® PROTECTION**



Dear customer,

When we started making this catalogue, we took the opportunity to go through our history, to compare between where we once stood and where we stand today. When we joined the SIOEN Group in 2001, SIP® Protection was a France-based company at the foot of the Pyrenees. We had one range on stock, the « *Tradition* » range, in green, navy and high-visibility colours, in a market with only a few suppliers of chainsaw protective clothing. Since 2001, our range has been growing gradually. Starting with the « *Innovation* » range, the first trousers of the « *Stretch Comfort* » range, and marking stepstones with the « *SIP 6.1* » trousers and later on with the « *Progress* » collection.

Today, we have evolved into an international supplier of chainsaw protective clothing and our strong presence in many European countries has led to great deal of new ideas and new developments. We focus on the perfect mix between quality, comfort and safety. In this catalogue, not only will you find trousers with added calf protection, but you will witness the evolution of the « *Progress* » trousers, offering derivatives adapted to the specific requirements of tree climbers and forestry workers or garments specifically developed for extremely tough working conditions. Our chainsaw jackets will systematically be upgraded from class 0 to class 1, but do not worry, we have achieved this while actually reducing the weight *and* drastically increasing the wearer comfort. And most importantly, we can introduce you to our entirely new « *Innovation II* » range.

By visiting tradeshows and working places, we carefully listened to all comments and remarks concerning chainsaw clothing. Based upon this feedback, we began working towards a single goal: to offer chainsaw users the most comfortable and lightest trousers as possible without compromising on the quality of the used materials and the lifetime of the product.

We developed new outer fabrics, we found new blocking materials and we innovated the design, not only visually with the colour setting, but more importantly by redesigning the trousers. We put stretch fabrics wherever increased comfort was required, and stuck to resisting fabrics where you needed it. To top it off, a ventilation mesh fabric for the outflow of hot air has been introduced.

Today we are somewhat proud that we can introduce the « *Innovation II* » range. We are convinced that you will appreciate the new comfort that we bring you. We hope you enjoy this catalogue and we are positive that a pair of chainsaw trousers perfectly suited to your needs is inside. During the next few years, we will continue travelling around and presenting you our full range. If you see us, do not hesitate to come and tell us about your experiences or ideas. **It's your experience with our products that helps us bring out more developments in the coming years.**

**Because in the end, we want to make the trousers that you want!**

Your SIP® Protection Team

# WHO WE ARE

## WHAT WE STAND FOR

SIP® Protection specializes in the development of chainsaw apparel. The mindset to only manufacture what we know best, has paved the way towards becoming one of Europe's leading brands. As a result over the years, we have come up with a great number of solutions and we are glad that they have been adopted by many amongst you.

By wearing a product of SIP® Protection you are wearing more than just a product. You are wearing a piece of what we stand for:

A STRONG WILL TO ACTIVELY SEEK WHAT YOU WANT AND **A GREAT RELATION WITH DIFFERENT KINDS OF END USERS**, A FULL IN-HOUSE DESIGN AND MANUFACTURING WITH **APPROVED QUALITY** AND AN ETHICAL AND ECOLOGICAL TRADING POLICY.

You can find more details throughout the catalogue.

SIP® Protection joined the SIOEN Group in 2001. SIOEN apparel's experience in protective clothing began in 1960. Still being a family owned company to this day, this decade-long knowhow has been very useful and helped a great deal bringing out new product developments and innovations for the benefit of each user. SIOEN's company slogan "*Protection through Innovation*" isn't just a hollow statement but daily reality.

01

02

03

04



Over 25 years of experience in making quality chainsaw protection:

01. One of our first leaflets figured the first products according to the European standard. **In other words we were one of the very first to be able to present products in accordance with European standard EN 381 in 1995.**  
This leaflet - *it couldn't be called a proper 'catalogue' just yet* - explained about a dozen products covering pretty much every demand there existed at the time in forestry.
02. Shortly thereafter, some products were added to the range, i.e. **high-visibility products according to European standard EN 471** on top of the European standard for chainsaw protection EN 381.
03. The arrival of the « **Innovation** » range and « **Cl. 2** » range marked the arrival of user comment based solutions. Stronger fabrics, water repellent fabrics through new weaving methods and water repellent treatments quickly found their way to many users.
04. **With the arrival of stretch fabrics** we introduced the SIP 5.1 as **the stretch fabric range.** It pleased thousands of users and continues to do so under the name « **SIP 6.1** » range.
05. User comments based products continued to find their way to the market with products designed and worn by professionals. In this brochure we present products especially for arborists.
06. The first real product catalogue figured a series of product ranges each designed with a specific purpose in mind. Our previous catalogue figured similar products but we provided additional information and updated products.
- 07 **The new catalogue marks the start of a new era, an era in which we are proud to announce that we can answer pretty much any demand.**  
Whether you are a forestry worker, a tree climber or only work with a brushcutter, we can surely satisfy your needs.

05



06



07



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All items in this catalogue, apart from an explicitly mentioned rare exception, are available at your usual SIP® Protection dealer. Even if he does not stock the product of your choice, he can get it from us on simple demand. Should you face any problems in obtaining the SIP® Protection products of your preference, please contact us at [info@sip-protection.com](mailto:info@sip-protection.com).

At the end of each product range, you'll find an overview of all important features to be found within the range.

# TRADITION RANGE

## TRADITIONAL CHAINSAW APPAREL

From the moment you have a running chainsaw in your hands there is an increased risk of serious accident. The principle is that simple. In the same way we keep it simple in our « *Tradition* » range: a rigid Polyester/Cotton fabric and a down to earth design.

Consider the 1SP2: over the years we have collected thousands and thousands of satisfied customers. This isn't something you can take for granted when you launch a product. The reasons for its success is simple: this product is good, this product is a no-nonsense product.

OVER THE YEARS THE INITIAL DESIGN HAS CHANGED LITTLE BECAUSE IT WAS SPOT ON FROM THE START... A PRODUCT RANGE WITH OVER 25 YEARS OF SATISFIED USERS.

The « *Tradition* » range is based on rock-solid principles. Compare it to driving a car: You drive a car? You wear a seatbelt. You work with a chainsaw? You wear SIP® Protection chainsaw trousers.



## KEY FEATURES OF THE « TRADITION » RANGE:



### A STRONG AND BASIC OUTER FABRIC

WORK SAFELY WITH  
DECENT CHAINSAW TROUSERS

The right PES/COT (65% Polyester + 35% Cotton) balance that makes up the outer fabric in the « *Tradition* » range has been used for a long time in the past and is still used today to create that simple pair of chainsaw trousers.

It is ideal when your working conditions do not require any extreme properties of the clothing.

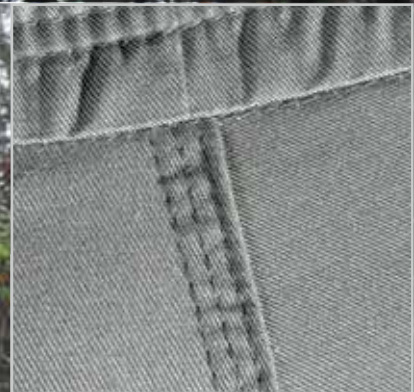


### USEFUL POCKETS

YOU NEED NOTHING MORE IN  
BASIC WORKING CIRCUMSTANCES

The « *Tradition* » range is all about the principles of chainsaw trousers. Being basic but as functional as possible for the conditions you're working in. (dry weather, not too hostile environments, normal working circumstances).

"Enough for my kind of work" is also translated into a minimum number of pockets placed on the most logical places: 2 inset pockets, 1 pocket on the back and 1 ruler pocket on the right...

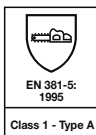


### THE RIGHT FIT AND 3-NEEDLE STITCHING

BECAUSE COMFORT HAS ALWAYS  
BEEN OUR TRADITION

As a manufacturer of trousers by origin, we know what it takes to make your trousers fit. **The better the fit, the higher the comfort.** The higher the comfort, the better the work. That is our tradition!

**3-needle stitching in the back seam**  
The tradition to use 3-needle stitching in the back seam since the creation of the 1SP2 over two decades ago, has become a rule on every single pair of chainsaw trousers we manufacture in every single product range.



## CHAINSAW TROUSERS REF 1SP2 - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*The simple design of the 1SP2 withstood the test of time. It has been approved by many thousands of satisfied users because of the down to earth design and strong rigid outer fabric.*

*Many thousands of satisfied users are a number that might not say enough. There are people that have been using these trousers for almost 2 decades. Not the same pair of course, but 1SP2 as their reference.*

### KEY FEATURES:

- robust PES/COT outer fabric
- 3-needle stitching in the back seam
- also available in high visibility



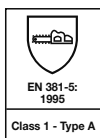
### CHAINSAW PROTECTIVE INLAY

On the picture at the left you see a 1SP2 inside out. Everything you see in white is the chainsaw protective inlay.

In order to be conform with European Standard EN 381-5, all of our type A trousers have min. 180° degrees front protection, and 5 cm extra on the inside of the right leg and on the outside of the left leg. The protective inlay is the most important part of a pair of trousers and should be maintained properly.



*For more info about maintenance see page 74.*



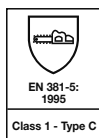
### TALL FIT CHAINSAW TROUSERS REF 1SP3 - TYPE A

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*Same basic features as our 1SP2 but with elongated leg length.*

#### KEY FEATURES:

- same features as 1SP2
- 6 cm inner leg length added




### CHAINSAW TROUSERS REF 1SP6 - TYPE C

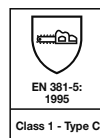
Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*Same basic features as our 1SP2. However, the 1SP6 offers 360° degrees protection around the legs.*

#### KEY FEATURES:

- same features as 1SP2
- 360° degree (type C) protection

 *For more info about type C protection: see page 123*



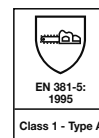
### TALL FIT CHAINSAW TROUSERS REF 1SR6 - TYPE C

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*Same basic features as our 1SP2. Differences are an elongated inner leg and all around protection.*

#### KEY FEATURES:

- same features as 1SP2
- 6 cm inner leg length added
- 360° degree (type C) protection



### CHAINSAW TROUSERS REF 1SPQ - TYPE A

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*Same basic features as our 1SP2. According to the indications of professional instructors, people who have little experience working with a chainsaw should need a pair of forestry trousers providing extra protection.*

*On the outside of the left leg, where statistically most incidents occur, we added 5 cm of extra protection.*

#### KEY FEATURES:

- same features as 1SP2
- 5 cm of extra protection added on the outside of the left leg

# THE ANTI-WICKING HYDURA REINFORCEMENTS PREVENT WATER INFILTRATION IN THE PROTECTIVE INLAY



DETAIL: HYDURA ANTI-WICKING STRIP



DETAIL: HYDURA KNEE REINFORCEMENTS

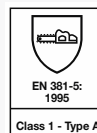
## HYDURA REINFORCEMENTS: PREVENTS WATER INFILTRATION

The HYDURA reinforcements on the knees are especially knitted on top of the Polyester/Cotton fabric to further increase the hard-wearing characteristics of the 1SP2 and prevent water infiltration in that area.

Think of morning dew. Even when it doesn't rain, the soil can be wet. The HYDURA patches at the bottom of the trousers will prevent water infiltration assuring comfortable working at all times. This is called an anti-wicking function. The HYDURA fabric also has an additional advantage. It happens to be a very strong fabric resisting very well to low and strong brush, which would easily decrease the life span of regular chainsaw trousers.



## CHAINSAW TROUSERS REF 1SPI - TYPE A



EN 381-5:  
1995

Class 1 - Type A

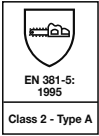
Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Like the trousers on page 11, the 1SPI is based on the 1SP2 style. The 1SPI takes the durability one level higher by adding HYDURA on the knees and adding a HYDURA anti-wicking strip on the bottom of the trousers. A stretchable crotch assures free movement and increases comfort.*

### KEY FEATURES:

- same features as 1SP2
- HYDURA reinforcements in the knee area
- anti-wicking reinforcement on the bottom of the trousers
- stretchable crotch to increase free movement





## CHAINSAW TROUSERS - CLASS 2 REF 1SQX - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 2**

*There's no need to incorporate a fan or fancy fabrics in order to ventilate your pair of trousers. That's the philosophy behind these class 2 chainsaw trousers.*

*A large part of the back of these trousers is made of mesh fabric especially conceived to increase wearing comfort during hot weather conditions. Professional users have observed a significantly more ventilated sensation.*

*In a nutshell: the better class 2 chainsaw trousers for hot weather conditions.*

### KEY FEATURES:

- same features as 1SP2
- chainsaw protection class 2 (24m/s)
- large ventilation mesh on the back of the legs



DETAIL: MESH VENTILATION



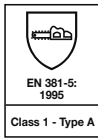
### DID YOU KNOW?

Braces put the stress of a pair of chainsaw trousers on the shoulders often resulting in higher wearing comfort.



**A HIGH VIS ORANGE MESH:  
SMALL INSECTS AND  
SAWDUST CAN'T GET IN,  
AIR CAN!**





**CHAINSAW BIB & BRACE  
REF 1SG2 - TYPE A**

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Some people like it, some people don't. But there's actually more to it than just an esthetical choice. There are three distinct advantages that trousers don't have:*

- *First advantage: a bib & brace has a big practical front pocket, handy to store items you cannot store in a pair of trousers.*
- *The back bib decreases the amount of sawdust in your back when sawing in bent over position.*
- *Most importantly: by wearing a bib & brace you do not have to wear a belt or braces.*

*As a consequence a bib & brace decreases friction in the hip and lower belly area that some might encounter when wearing a pair of trousers. One of these three or all comparisons might justify...*

**KEY FEATURES:**

- same PES/COT outer fabric qualities as on the forestry trousers in the « Tradition » range
- back and front bib (with pocket)
- easy to put on and to take off by opening button and zip on the right-hand side
- also available in high visibility



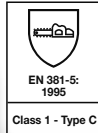
**TALL FIT  
CHAINSAW BIB & BRACE  
REF 1SG3 - TYPE A**

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Same basic features as model 1SG2 but for taller people with an extra 6 cm inner leg length.*

**KEY FEATURES:**

- same features as 1SG2
- 6 cm inner leg length added



**CHAINSAW BIB & BRACE  
WITH ALL AROUND PROTECTION  
REF 1SG6 - TYPE C**

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Same basic features as our style 1SG2. Main difference is a 360° degree protection.*

**KEY FEATURES:**

- same features as 1SG2
- 6 cm inner leg length added
- 360° degree (type C) protection



DETAIL: BIG PRACTICAL FRONT POCKET



DETAIL: DECREASES SAW DUST

**DID YOU KNOW?**

If you are always in need of that easy to reach extra pocket, the big pocket on the bib & brace can be your solution.

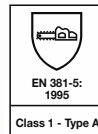
A bib & brace decreases friction in the lower belly and hip area you might encounter by wearing trousers.

The back bib decreases the amount of sawdust in your back when sawing in bended over position.





### CHAINSAW COVERALL REF 1SC1 - TYPE A



Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*A coverall is a great example of a product with underestimated qualities.*

*Admittedly, a coverall isn't all that stylish. But who cares when you are working on a cold day and in circumstances where you know you will get dirty?*

*Wear one of these and you'll know right away why you shouldn't care. Class 1 protection on the legs, a protective inlay on the shoulders and on the upper part of the arms. The 2 gussets on the back and on the right place in combination with the 6 ventilation eyes expel body heat and create a comfortable cocoon of a controlled body temperature.*

#### KEY FEATURES:

- regulated body temperature by 2 gussets and 6 ventilation rings
- class 1 and type A leg protection
- extra protective inlay on shoulders and upper part of the arms





### CHAINSAW LEGGINGS REF 1ST2 - TYPE A

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*The 1ST2 is similar to 1ST3 but it closes with an attached elasticized belt.*

#### KEY FEATURES:

- closing with the attached elasticated belt



### CHAINSAW LEGGINGS REF 1ST3 - TYPE A

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*The 1ST3 is similar to 1ST2 but it closes with a belt instead of an attached elasticized belt like on the 1ST2.*

#### KEY FEATURES:

- key « Tradition » range features
- closure with belt (sold separately)
- also available in high visibility



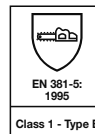
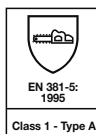
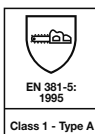
### CHAINSAW LEGGINGS WITH ALL AROUND PROTECTION REF 1ST6 - TYPE B

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*The 1ST6 provides nearly complete protection around the legs. The only spot that remains is the zipper area at the back of the legs. The 1ST6 closes with a belt instead of an attached elasticized belt like on the 1ST2.*

#### KEY FEATURES:

- allround protection with the exception of the zipper area on the back
- closure with belt (sold separately)



### ADVANTAGES OF CHAINSAW LEGGINGS

- Increased ventilation
- Easy to put on and easy to take off
- One size fits all whether you are big or small, a legging is designed in such a way it fits nearly all sizes



DETAIL: EASY TO PUT ON / TO TAKE OFF



DETAIL: INCREASED VENTILATION

### EXTENSION FOR LEGGINGS REF 1SX3

*For people with thicker calves who want to enjoy the benefits of a legging (described on this page) an extension can easily be zipped in to increase free space between the legs and the legging.*

#### KEY FEATURES:

- can be fitted on leggings 1ST2 and 1ST3



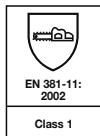
### CHAINSAW JACKET REF 1S11

Chainsaw protection conform to the European Standard **EN 381-11 - Class 1**

*The 1S11 is a class 1 jacket that is both lighter and more comfortable than the old 1S1. New technologies allowed for the development of this jacket, resulting in it being lighter and much more comfortable thanks to a re-designed fit.*

#### KEY FEATURES:

- arm and shoulder protection according to EN 381-11
- back ventilation
- ergonomic fit
- smartphone pocket on the left arm
- also available in high visibility

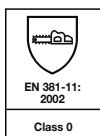


chainsaw protective area

THE TRADITION TO USE  
TRIPLE NEEDLE STITCHING  
IN THE « TRADITION » RANGE  
BECAME STANDARD ON EACH  
PAIR OF CHAINSAW TROUSERS  
WE MANUFACTURE



### CHAINSAW JACKET REF 1SJ1



Chainsaw protection conform to the European Standard **EN 381-11 - Class 0**

*This was the original chainsaw protective jacket we introduced in the « Tradition » range. It has class 0 arm and shoulder protection and back ventilation. The same fabric as for the whole « Tradition » range: the rigid Polyester /Cotton fabric.*

#### KEY FEATURES:

- arm and shoulder protection according to EN 381-11
- back ventilation
- also available in high visibility



### WORKING JACKET REF 1SJ4



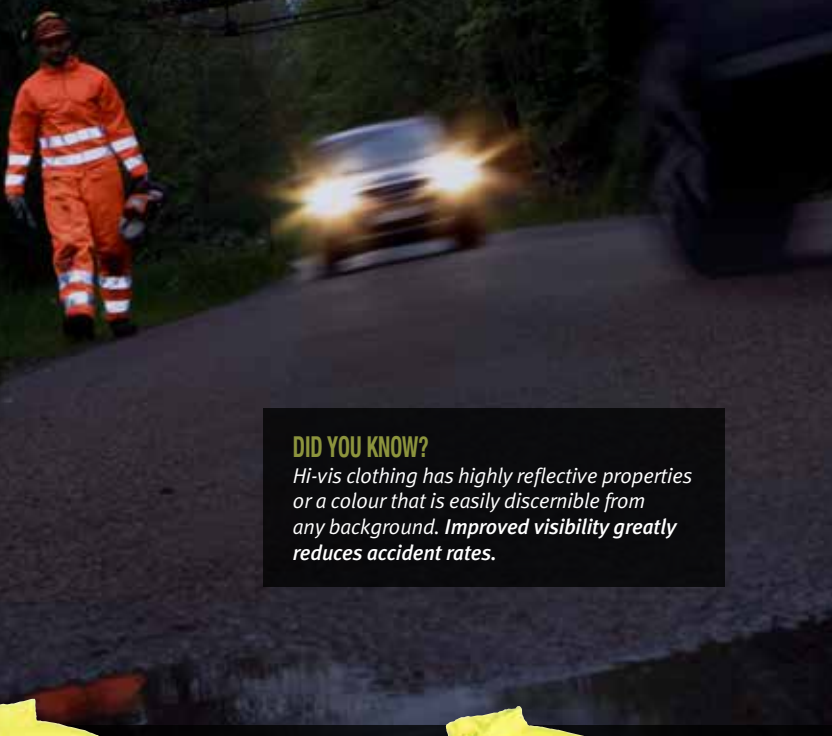
Protection against mechanical factors that **cause superficial lesions**

*A working jacket matching the « Tradition » range trousers, leggings and bib & braces.*

#### KEY FEATURES:

- robust PES/COT outer fabric
- comfortable fit

# HI-VIS CLOTHING HAS HIGHLY REFLECTIVE PROPERTIES OR A COLOUR THAT IS EASILY DISCERNIBLE FROM ANY BACKGROUND



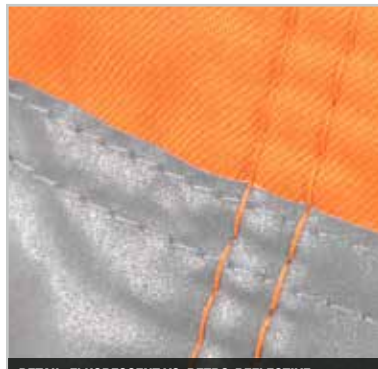
**DID YOU KNOW?**  
Hi-vis clothing has highly reflective properties or a colour that is easily discernible from any background. Improved visibility greatly reduces accident rates.



DETAIL: EASY TO PUT ON (REF. 1SG9)



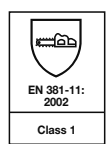
DETAIL: EASY ZIP ON-ZIP OFF



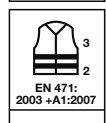
DETAIL: FLUORESCENT VS. RETRO-REFLECTIVE



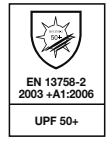
## HI-VIS CHAINSAW JACKET REF 1S19



EN 381-11: 2002  
Class 1



EN 471: 2003 +A1:2007  
Class 3-2



EN 13758-2 2003 +A1:2006  
UPF 50+

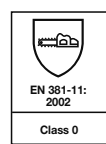
Chainsaw protection conform to the European Standard **EN 381-11 - Class 1**  
High visibility protection conform to the European Standard **EN 471 - Class 3-2**  
Solar UV protection conform to the European Standard **EN 13758-2 - UPF50+**

*The 1S19 is a class 1 jacket that is both lighter and more comfortable than the old 1S19. New technologies allowed for the development of this jacket, resulting in its being lighter and much more comfortable thanks to a re-designed fit.*

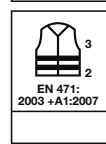
### KEY FEATURES:

- high visible according to EN 471
- arm and shoulder protection according to EN 381-11
- back ventilation
- ergonomic fit

## HI-VIS CHAINSAW JACKET REF 1S1J9



EN 381-11: 2002  
Class 0



EN 471: 2003 +A1:2007  
Class 3-2

Chainsaw protection conform to the European Standard **EN 381-11 - Class 0**  
High visibility protection conform to the European Standard **EN 471 - Class 3-2**

*Style based upon 1S11 but is certified EN 471 class 3-2.*

### KEY FEATURES:

- high visible according to EN 471
- arm and shoulder protection according to EN 381-11
- back ventilation



## EXTENSION FOR LEGGINGS REF 1SX9

For people with thicker calves who want to enjoy the benefits of a legging an extension can easily be zipped in to increase free space between the legs and the legging.



### HI-VIS CHAINSAW TROUSERS REF 1SP9 - TYPE A

Chainsaw protection conform to the European Standard

**EN 381-5 - Class 1**

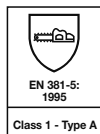
High visibility protection conform to the European Standard

**EN 471 - Class 2-2**

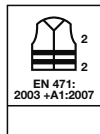
Style based upon 1SP2  
but is certified EN 471 class 2-2.

#### KEY FEATURES:

- high visible according to EN 471
- robust PES/COT outer fabric
- 3-needle stitching



Class 1 - Type A



EN 471:  
2003 +A1:2007

### HI-VIS CHAINSAW BIB & BRACE REF 1SG9 - TYPE A

Chainsaw protection conform to the European Standard

**EN 381-5 - Class 1**

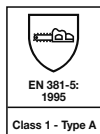
High visibility protection conform to the European Standard

**EN 471 - Class 2-2**

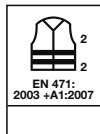
Style based upon 1SG2  
but is certified EN 471 class 2-2.

#### KEY FEATURES:

- high visible according to EN 471
- same PES/COT outer fabric qualities as on the forestry trousers in the « Tradition » range
- back and front bib (with pocket)
- easy to put on and to take off by opening button and zip on the right-hand side



Class 1 - Type A



EN 471:  
2003 +A1:2007



### HI-VIS CHAINSAW LEGGINGS REF 1ST9 - TYPE A

Chainsaw protection conform to the European Standard

**EN 381-5 - Class 1**

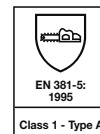
High visibility protection conform to the European Standard

**EN 471 - Class 2-2**

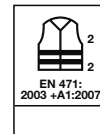
Style based upon 1ST3  
but is certified EN 471 class 2-2.

#### KEY FEATURES:

- high visible according to EN 471
- easy ZipOn-ZipOff
- closure with belt (sold separately)



Class 1 - Type A



EN 471:  
2003 +A1:2007

# TRADITION OVERVIEW

## TRADITIONAL CHAINSAW APPAREL

The table below gives an overview of the products within the range and allows you to compare each product. You will find a summary of all products with the corresponding page references on page 126.

We are happy to provide more in-depth technical information upon request.



<b>1SP2</b> TROUSERS page 10	<b>1SP3</b> TROUSERS page 11	<b>1SP6</b> TROUSERS page 11	<b>1SR6</b> TROUSERS page 11	<b>1SPQ</b> TROUSERS page 11	<b>1SPI</b> TROUSERS page 12	<b>1SQX</b> TROUSERS page 13	<b>1SG2</b> BIB&BRACE page 14	<b>1SG3</b> BIB&BRACE page 14	<b>1SG6</b> BIB&BRACE page 14	<b>1SC1</b> COVERALL page 15	<b>1ST2</b> LEGGING page 17	<b>1ST3</b> LEGGING page 17	<b>1ST6</b> LEGGING page 17
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### STANDARDS

EN 381-5	Class	1	1	1	1	1	1	2	1	1	1	1	1	1	1
	Type	A	A	C	C	A	A	A	A	A	C	A	A	A	B
EN 381-11	Class	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EN 471	Class	-	-	-	-	-	-	-	-	-	-	-	-	-	-

### FEATURES

3-needle stitching <sup>(1)</sup>	•	•	•	•	•	•	•	•	•	•	•	•	N/A	N/A	N/A
65% PES - 35% COT	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
water repellent treatment	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ventilation <sup>(2)</sup>	-	-	-	-	-	-	•	-	-	-	-	-	-	-	-
stretch inserts	-	-	-	-	-	•	-	-	-	-	-	-	-	-	-
extra pockets <sup>(3)</sup>	-	-	-	-	-	•	-	•	•	•	•	-	-	-	-

### DURABILITY

abrasion resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
thorn resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
strength of reinforcements	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

### USE

forestry	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
tree climbing	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
brush cutting	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

### COLOURS

colour ref.	503	503	503	503	508	503	506	503	503	503	503	503	503	503	503
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

### SIZES

inner leg length (cm)	78	84	80,5/82 <sup>(4)</sup>	86,5/88 <sup>(4)</sup>	78	78	86	78	84	84	84	84	77,5	77,5	77,5
size table (page 130)	XS-4XL	S-3XL <sup>(5)</sup>	XS-3XL	S-3XL <sup>(5)</sup>	XS-3XL	S-3XL	S-3XL	XS-4XL	S-4XL <sup>(5)</sup>	XS-4XL	XS-3XL	UNI <sup>(6)</sup>	UNI <sup>(6)</sup>	UNI	UNI
EN 340 <sup>(7)</sup>	1998	1998	1998	1998	1998	1998	2003	1998	1998	1998	1998	-	-	-	-

(1) 3-needle stitching in the back seam  
 (2) mesh fabric on the back of the legs  
 (3) more than standard ruler pocket, 2 inset pockets and back patched pocket  
 (4) inner leg length according to the size  
 (5) tall fit  
 (6) the product can be extended with ref. 1SX3 (page 17)  
 (7) for appropriate size tabel, see page 130



**1SP9**  
TROUSERS  
page 21

**1SP9**  
TROUSERS  
page 21

**1SG9**  
BIB&BRACE  
page 21

**1SG9**  
BIB&BRACE  
page 21

**1ST9**  
LEGGING  
page 21

**1ST9**  
LEGGING  
page 21

**1SJ1**  
JACKET  
page 18

**1SJ1**  
JACKET  
page 19

**1SJ4**  
JACKET  
page 19

**1SI9**  
JACKET  
page 20

**1SI9**  
JACKET  
page 20

**1SJ9**  
JACKET  
page 20

**1SJ9**  
JACKET  
page 20

## STANDARDS

EN 381-5	Class	1	1	1	1	1	1
	Type	A	A	A	A	A	A
EN 381-11	Class	-	-	-	-	-	-
EN 471	Class	2-2	2-2	2-2	2-2	2-2	2-2

## FEATURES

3-needle stitching <sup>(1)</sup>	•	•	•	•	N/A	N/A
67% PES - 33% COT	•	•	•	•	•	•
water repellent treatment	•	•	•	•	•	•
ventilation <sup>(2)</sup>	-	-	-	-	-	-
extra pockets	-	-	• <sup>(3)</sup>	• <sup>(3)</sup>	-	-

## DURABILITY

abrasion resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
thorn resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
strength of reinforcements	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

## USE

forestry	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
tree climbing	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
brush cutting	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

## COLOURS

colour ref.	FY1	FC1	FY1	FC1	FY1	FC1
-------------	-----	-----	-----	-----	-----	-----

## SIZES

inner leg length (cm)	78	78	78	78	77,5	77,5
size table (page 130)	XS - 3XL	XS - 3XL	S-3XL	S-3XL	UNI <sup>(5)</sup>	UNI <sup>(5)</sup>
EN 340 <sup>(6)</sup>	2003	2003	2003	2003	-	-

-	-	-	-	-	-	-
-	-	-	-	-	-	-
1	0	-	1	1	0	0
-	-	-	3-2	3-2	3-2	3-2

-	-	-	-	-	-	-
•	•	•	•	•	•	•
•	•	•	•	•	•	•
•	•	•	•	•	•	•
• <sup>(4)</sup>	-	-	• <sup>(4)</sup>	• <sup>(4)</sup>	-	-

●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

503	503	503	FC1	FY1	FC1	FY1
-----	-----	-----	-----	-----	-----	-----

-	-	-	-	-	-	-
XS-4XL	XS-4XL	XS-3XL	S-3XL	S-3XL	S-3XL	S-3XL
2003	1998	1998	2003	2003	1998	1998

(1) 3-needle stitching in the back seam

(2) thanks to back ventilation

(3) more than standard ruler pocket, 2 inset pockets and back patched pocket

(4) more than one patched pocket on the front

(5) universal size. The product can be extended with ref. 1SX9 (page 21)

(6) for appropriate size tabel, see page 130

# WE CARE ABOUT

## R&D, QUALITY AND INNOVATION

“Protection through Innovation” is the key philosophy of the SIOEN Group, the company behind SIP® Protection. That idea is also the drive behind SIP® Protection’s continuing investments in Research and Development.

ALREADY IN 1990, SIP® PROTECTION HAD ITS **OWN TESTING RIG** FOR THE DEVELOPMENT OF CHAINSAW TROUSERS. IT HELPED US TO **CREATE THE FIRST TROUSERS WITH 6 PROTECTIVE LAYERS ON THE MARKET.**

Nowadays, we keep on using an updated testing rig for new developments in our search to newer, safer, lighter and more comfortable blocking materials.

We also perform regular and random safety checks on running productions, in order to assure the high level of security that our customers have come to expect from us.

Research is also of great importance in the search of new fabrics, materials, trims. Depending on the required applications, we perform various tests on the different fabrics in order to find the ones that meet our expectations.

Anno 1995 - in-house test rig



Anno 2012 - in-house test rig



Prior to the launch of any new chainsaw protective product thorough testing is of the utmost importance. The first tests are executed at our own testing rig and are tested again at a later stage by an independent body in order to obtain EN certification. For chainsaw protection, have a closer look at the pictures below shot in our in-house test rig.



#### PICTURE 1: BEFORE IMPACT

*This image depicts a running chainsaw nearing a test leg.*

In real life, when not wearing a pair of chainsaw trousers, a potentially lethal accident is only moments away. The user is unaware that he or she is in danger.



#### PICTURE 2: IMPACT

*This image depicts the chainsaw actually making contact with the test leg fitted with a protective pair of trousers.*

The protective fibers are clearly pulled into the driving sprocket. The chain is visible on the picture, proves the effectiveness of the mechanism from the moment it makes contact.

In real life, at this point in time, the one wearing a pair of protective trousers does not realize what is happening.



#### PICTURE 3: AFTER IMPACT

*The movement of the chain on the blade has been blocked completely after a split second.*

In real life, the person wearing a pair of protective trousers only just starts to realize what is happening. After a few seconds the user fully realizes what has happened: without the blocking mechanism, a severe injury would have been unavoidable.

Chainsaw protection is the main focus of our R&D activities. Of course we do not stop there. A whole serie of tests is executed on a daily basis in order to test the quality of the fabrics we use in our products.

IN THE DEVELOPMENT OF OUR PRODUCTS, WE ALSO WORK TOGETHER WITH **A SELECTION OF PROFESSIONAL USERS**, WHO TEST THE INNOVATIONS IN THEIR DAILY USE. THEIR COMMENTS HELP US FINETUNE AND IMPROVE RUNNING PROJECTS.

And last but not least, we work together with KWF (page 70) for achieving the FPA labels on our products.



**SPRAY TEST**  
*Determination of the water repellency*

*The evaluation of the test is visual appreciation of the surface of the fabric (number of absorption points on the surface).*



**WASH TEST**  
*Determination of the washing durability of the garments*

*Finished garments go through a specified number of washing cycles in order to determine washing durability.*

All of these efforts wouldn't have been much use had we not implemented a serious "Quality Control System". Our QC Department performs quality control at 3 different levels:

### QUALITY CONTROL OF THE FABRICS

From all incoming fabrics, whether it is a totally new fabric, or a fabric that we have been using for 20 years, **samples are put through the entire testing process**, in the same way as they have during their development. Only upon approval from our QC people, the fabrics will be allowed into production.

### QUALITY CONTROL AT PRODUCTION

During production, quality supervisors continuously inspect the quality of the finished goods. This is necessary for 2 reasons. First off, we make sure that **we meet every single requirements of the involved European standards**. Secondly, we want to be able to guarantee that the user will wear our garments with pleasure and assured comfort.

### QC OF INCOMING FINISHED GOODS

Before warehousing a batch of freshly produced garments, our quality control team in the laboratory at the warehouse thoroughly inspects the finished goods. **The goods only become stocked when the quality supervisor approves a fixed percentage of the samples out of a production series.** Among other things, these samples are checked to assure that the stitching has been executed according to the original design, to see if the weight still corresponds with the weight of the approved pre-production samples and if all measurements are correct. **Finally, we execute a number of random tests to assure the safety and level of protection.**



#### MARTINDALE TEST

*Determination of the abrasion resistance*

In the Martindale test, wool or sandpaper is used to rub the fabric over and over again with considerable pressure. Depending on how tough the fabric needs to be, this vigorous rubbing can continue non-stop for hours... or even days.

Thanks to all of these investments, we are able to permanently guarantee a high level of quality, and we are able to offer you safety clothing that lasts. This way, you won't need a new pair of trousers every couple of months. This of course, also depends on your working environment.

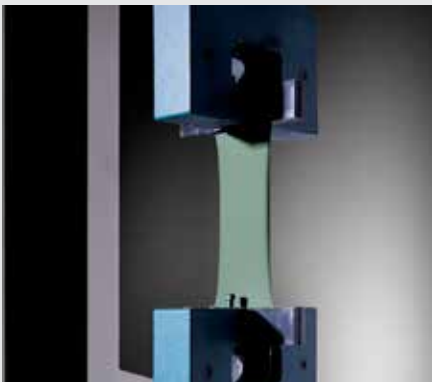
Our main goal is to keep our users satisfied. We will keep pushing the envelope to do so. That is a promise!



#### TEAR STRENGTH TEST

*Determination of mechanical performance*

The force necessary to tear a fabric, measured by the force necessary to start or continue a tear in a fabric. Expressed in pounds or in grams, the most commonly used method for determining the tear strength is the Elmendorf tear test procedure.



#### TENSILE STRENGTH TEST

*Determination of mechanical performance*

A tensile test, also known as tension test, is probably the most fundamental type of mechanical test you can perform on material. By pulling on something, it can be determined very quickly how the material will react to forces being applied in tension. As the material is being pulled, you will find its strength along with how much it will elongate.



#### HYDROSTATIC PRESSURE TEST

*Determination of resistance to water penetration*

The standard specifies a hydrostatic pressure method for determining the resistance of fabrics to penetration by water. The highest class of water penetration resistance in this European Standard was deduced from several national norms which imposed a test pressure of 0.13 bar (1300mm).

# INNOVATION RANGE

## INNOVATIVE THROUGH DESIGN & CHARACTERISTICS

Some of our products, like the « *Tradition* » range, are timeless, because they are based upon basic principles. On the other hand, some products need to be revised and improved every once in a while.

TODAY WE ARE PROUD TO PRESENT THIS NEW DIMENSION OF CHAINSAW PROTECTIVE TROUSERS WITH **A NEW DESIGN, NEW OUTER FABRICS AND A NEW LIGHTWEIGHT BLOCKING MATERIAL.**

When creating this new « *Innovation II* » range our ultimate goal was to create a pair of trousers so light and comfortable that you even might forget you are wearing it.



## KEY FEATURES OF THE « INNOVATION II » RANGE:



### LIGHTWEIGHT DYNEEMA® BLOCKING MATERIAL

LIGHTWEIGHT = COMFORT

Why lightweight? Because one of our main priorities is to obtain maximized comfort while working.

The use of lightweight blocking material (DYNEEMA®), the biggest weight contributing factor in chainsaw trousers, is one of the key features in the « Innovation II » range.



### PEZATEC & PEZAFLEX OUTER FABRIC

LIGHTWEIGHT, RESISTANCE  
AND STRENGTH

The use of the new PEZATEC and PEZAFLEX stretch outer fabric combines 3 key characteristics:

**lightweight, resistance and strength.**

PEZATEC (100% Polyamide) and PEZAFLEX (94% Polyamide - 6% Elasthane) are designed to be both lightweight as well as strong (meaning tear resistant in all kinds of vegetation and abrasion resistant). This is not just an empty statement. Field tests conducted by professional users, provided us a unanimous "go" with these fabrics in the new « Innovation II » range.



### MAXIMIZED FREE MOVEMENT

NEW DESIGN  
STRETCH VS NON-STRETCH

Maximized free movement is guaranteed through a number of PEZAFLEX inserts on the knees, on the back of the knees and on the upper back part of the trousers.

The PEZATEC fabric is placed at key points, i.e. those where you need more resistance against wear and tear.

In other words, stretch where you need it for free movement, non-stretch where you need it for functionality.



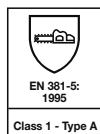
**DID YOU KNOW?**

*On most construction sites it is mandatory to wear a hi-vis jacket. In the “green industry” this is translated into colors that can easily be distinguished in the working environment.*

*There is a tendency across Europe to introduce more lively colors like red in order to increase visibility on a logging site. For those who prefer the more traditional, less colourful, look we added a dark grey style pair of trousers as well.*

*In the latter case, a jacket that matches both styles takes care of being more visible.*

**YOUR DEMAND:  
A PAIR OF TROUSERS,  
AS LIGHT AND COMFORTABLE  
AS POSSIBLE, BUT ALSO  
EXTREMELY STRONG.  
OUR ANSWER:  
INNOVATION II**



## CHAINSAW TROUSERS REF 1SPV - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*This product originated thanks to user feedback. We carefully listened to users' most wanted qualities in a pair of chainsaw trousers and we went back to the drawing board, with three clear objectives in mind:*

- as lightweight as possible
- as cool as possible
- as comfortable as possible

### How?

1. By using PEZATEC and PEZAFLEX as outer fabric we met half of the first target. The other action point was the use of a super lightweight protection inlay, made with DYNEEMA® fibers.
2. By introducing our especially developed mesh fabric (see detail at the bottom). This user-approved and strong mesh ventilation system expels any excess body heat. In addition, its high density keeps sawdust or bugs out your pair of trousers.
3. Comfort is already increased significantly because the first 2 targets above were achieved. In addition, by totally reinventing the fit we were able to increase comfort even further.

### KEY FEATURES:

- TEFLON® HP water & soil repellency treatment
- extremely lightweight DYNEEMA® protection and PEZATEC outer fabrics
- mesh ventilation
- perfect ergonomic fit
- PEZAFLEX stretch inserts
- zipped pockets



DETAIL: FRONT POCKET



DETAIL: MESH FABRIC

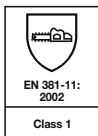


DETAIL: PEZAFLEX STRETCH INSERTS



DETAIL: ZIPPED POCKETS

### CHAINSAW JACKET REF 1SIV



Chainsaw protection conform to the European Standard **EN 381-11 - Class 1**

*This jacket is ergonomic, lightweight and very hard wearing. The reinforced shoulders (TEKTOR) allow you to carry a chainsaw or logs on your shoulder without ripping the fabric.*

#### KEY FEATURES:

- arm and shoulder protection according to EN 381-11
- TEFLON® HP water & soil repellency treatment
- waterproof TEKTOR reinforcements on the shoulders
- ergonomic collar
- armpit and back ventilation



### WORKING JACKET REF 1SKV



Protection against mechanical factors that **cause superficial lesions**

*This working jacket has the same features as the chainsaw jacket but has a comfort cuff that prevents sawdust infiltration in the sleeves.*

#### KEY FEATURES:

- TEFLON® HP water & soil repellency treatment
- waterproof TEKTOR reinforcements on the shoulders
- ergonomic collar
- comfort cuff in the arms
- armpit and back ventilation



DETAIL: COMFORT CUFF IN THE ARMS



## INNOVATION *II*

THE PERFECT  
BALANCE BETWEEN  
WEIGHT, STRENGTH  
AND COMFORT

DETAIL: REINFORCED SHOULDERS



### DID YOU KNOW?

A collar like the one on the 1SIV and 1SKV redefines the word collar. Where regular collars can be perfectly suitable to act as a sawdust funnel, this collar prevents any dust from getting into your neck. Furthermore it provides the additional advantage of not itching around the chin thanks to the fit around the neck.



**FOR THOSE WHO ARE NOSTALGIC ABOUT THE PREVIOUS « INNOVATION » RANGE: YOUR PRODUCT IS STILL AVAILABLE**

**THE PREVIOUS « INNOVATION » RANGE**  
The previous « *Innovation* » range has proven its mettle thanks to its rugged performance in hostile environments. **The fabric is stronger**, compared to the « *Tradition* » range and the extreme water repellent characteristics are also a cut above the « *Tradition* » range.

The perfect balance between Polyamide and Cotton combines **strength and durability**. If you are looking for a basic pair of chainsaw trousers with a fabric a notch stronger than the « *Tradition* » range, the outer fabric of the « *Innovation* » range will satisfy your needs.

Thanks to the weaving method, the user can benefit from highest comfort, even during drizzly rain. For those who are nostalgic about this range, do not fear. Your product is still available.

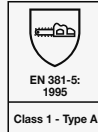
## CHAINSAW TROUSERS REF 1SP7 - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Back in 2003, we introduced a 4-way stretch crotch to maximize free movement, a water repellent treatment and a larger number of pockets than on the « Tradition » range.*

### KEY FEATURES:


- rigid PA/COT outer fabric
- 4-way stretchable crotch
- water repellent



## CHAINSAW BIB & BRACE REF 1SG7 - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*As far as quality is concerned, the outer fabric is identical to the one used on the 1SP7.*

 *For more info about KWF Profi See page 70*

### KEY FEATURES:

- KWF Profi label
- back and front bib (with pocket)
- easy to put on and off by opening button and zip on the right side
- 4-way stretchable crotch



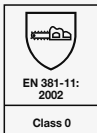
## CHAINSAW JACKET REF 1SJ5 - CLASS 0

Chainsaw protection conform to the European Standard **EN 381-11 - Class 0**

*The 1SJ5 chainsaw protective jacket has the same beaver Polyamide / Coton outer fabric as the trousers and bib & brace. The large fluorescent orange surface provides good visibility.*

### KEY FEATURES:

- rigid PA/COT outer fabric
- water repellent
- arm and shoulder protection to EN 381-11
- back ventilation



## WORKING JACKET REF 1SJ6

Protection against mechanical factors that **cause superficial lesions**

*The working jacket has the same rigid water repellent outer fabric and protects against mechanical factors that cause superficial lesions.*

### KEY FEATURES:

- KWF Profi label



## CHAINSAW JACKET REF 1SI5

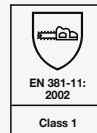
Chainsaw protection conform to the European Standard **EN 381-11 - Class 1**

*This chainsaw protective jacket has the same beaver Polyamide / Coton outer fabric as the 1SP7 and the 1SG7 and is both lighter and more comfortable than the older 1SJ5.*

*New technologies allowed the development of this jacket. Thinner on the one hand and way more comfortable on the other hand thanks to a re-designed fit.*

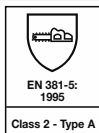
### KEY FEATURES:

- arm and shoulder protection to EN 381-11
- armpit and back ventilation
- ergonomic fit
- smartphone pocket on the left arm





**CHAINSAW TROUSERS - CLASS 2**  
**REF 1SQN - TYPE A**



Chainsaw protection conform to the European Standard **EN 381-5 - Class 2**

*The 1SQN is made with a durable beaver Polyamide / Cotton outer fabric.*

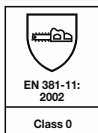
*Resistant to thorns and with an additional HYDURA reinforcement. It has proven to be an excellent workhorse on rough terrains with heavy vegetation.*

**KEY FEATURES:**

- chainsaw protection class 2 (24m/s)
- reinforcements on the knees



**CHAINSAW JACKET**  
**REF 1SJN**



Chainsaw protection conform to the European Standard **EN 381-11 - Class 0**

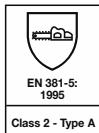
*The matching chainsaw protective jacket of 1SQN and 1SHN.*

**KEY FEATURES:**

- matching chainsaw jacket of references 1SHN and 1SQN
- hi-vis yellow surfaces



**CHAINSAW BIB & BRACE - CLASS 2**  
**REF 1SHN - TYPE A**



Chainsaw protection conform to the European Standard **EN 381-5 - Class 2**

*For the advantages of a bib & brace page 14. As far as quality is concerned, the outer fabric is identical of the one used on the 1SQN.*

**KEY FEATURES:**

- chainsaw protection class 2 (24m/s)
- reinforcements on the knees



**WORKING JACKET**  
**REF 1SKN**



Protection against mechanical factors that **cause superficial lesions**

*The matching working jacket of 1SQN and 1SHN.*

**KEY FEATURES:**

- matching forestry jacket of references 1SHN and 1SQN
- hi-vis yellow surfaces



# INNOVATION OVERVIEW

## INNOVATIVE THROUGH DESIGN & CHARACTERISTICS

The table below gives an overview of the products within the range and allows you to compare each product. You will find a summary of all products with the corresponding page references on page 126.

We are happy to provide more in-depth technical information upon request.



<b>1SPV</b> TROUSERS page 31	<b>1SPV</b> TROUSERS page 31	<b>1SP7</b> TROUSERS page 35	<b>1SQN</b> TROUSERS page 36	<b>1SG7</b> BIB&BRACE page 35	<b>1SHN</b> BIB&BRACE page 36	<b>1SIV</b> JACKET page 32	<b>1SKV</b> JACKET page 32	<b>1SJ6</b> JACKET page 35	<b>1SJ5</b> JACKET page 35	<b>1SI5</b> JACKET page 35	<b>1SJM</b> JACKET page 36	<b>1SKN</b> JACKET page 36
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### STANDARDS

EN 381-5	Class	1	1	1	2	1	2	-	-	-	-	-	-
	Type	A	A	A	A	A	A	-	-	-	-	-	-
EN 381-11	Class	-	-	-	-	-	-	1	-	-	0	1	0

### FEATURES

3-needle stitching <sup>(1)</sup>	•	•	•	•	•	•	-	-	-	-	-	-	-
PEZATEC - PEZAFLEX	•	•	-	-	-	-	•	•	-	-	-	-	-
polyamide - cotton	-	-	•	•	•	•	-	-	•	•	•	-	-
polyamide - cotton & SIOPOR®	-	-	-	-	-	-	-	-	-	-	-	•	•
water repellent treatment	• <sup>(2)</sup>	• <sup>(2)</sup>	-	-	-	-	• <sup>(2)</sup>	• <sup>(2)</sup>	•	•	•	•	•
stretch inserts	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
ventilation	• <sup>(3)</sup>	• <sup>(3)</sup>	-	-	-	-	• <sup>(4)</sup>	• <sup>(4)</sup>	• <sup>(4)</sup>	• <sup>(5)</sup>	• <sup>(4)</sup>	• <sup>(5)</sup>	• <sup>(5)</sup>
weight reduction (DYNEEMA®)	•	•	-	-	-	-	-	-	•	-	-	-	-

### DURABILITY

abrasion resistant	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
thorn resistant	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
strength of reinforcements	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••

### USE

forestry	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
tree climbing	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••
brush cutting	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••	•••••

### COLOURS

colour ref.	939	894	526	716	526	716	939	939	526	526	526	716	716
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### SIZES

inner leg length (cm)	82	82	80-89 <sup>(6)</sup>	78	80-89 <sup>(6)</sup>	78	-	-	-	-	-	-	-
size table (page 130)	S-3XL	S-3XL	S-3XL	S-3XL	XS-4XL	S-3XL	XS-3XL	XS-3XL	S-3XL	XS-3XL	XS-3XL	S-3XL	S-2XL
EN 340 <sup>(7)</sup>	2003	2003	2003	2003	1998	2003	2003	2003	2003	2008	2003	2008	2008

(1) 3-needle stitching in the back seam

(2) water repellent treatment thanks to TEFLON® HP (High performance)

(3) thanks to mesh ventilation on the back

(4) thanks to back and armpit ventilation

(5) thanks to back ventilation

(6) inner leg length according the size

(7) for appropriate size tabel, see page 130

# WE CARE ABOUT THE INDUSTRY WE WORK AND LIVE IN.

Your work is an important part of your life. By caring deeply about your comfort and your well-being, we make your work and life easier. We care about our industry and therefore

## WE ARE A DEVOTED PARTNER IN THE ETCC (EUROPEAN **TREE CLIMBING** CHAMPIONSHIP),

sponsoring several teams such as the BELGIAN team, the DUTCH team, the BRITISH team, the FRENCH team, ... each and every year.

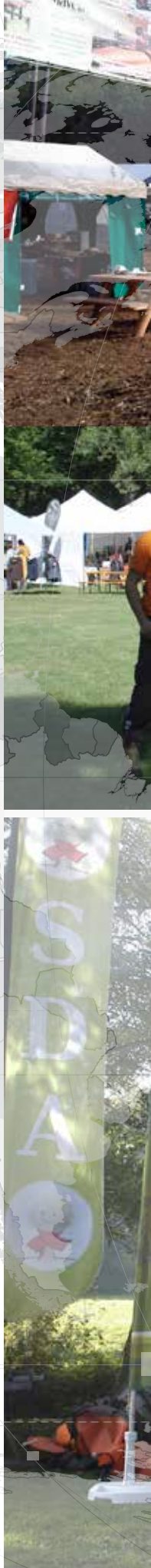
Consider, if you will, the use of our climbing trousers! By sponsoring this event, we learn about specific requirements which allow us to further improve our trousers, vests,... A give and a take, a thank you and a... thank YOU. We are not only committed in creating garments for tree care and tree climbing.

## **FORESTRY** IS AN OTHER “GREEN INDUSTRY” BRANCH ABOUT WHICH WE CARE.

We are proud to present ourselves to both daily and occasional users of our products. Not one of our garments enters our warehouse without being thoroughly tested. In most cases *being tested* means *being tested* in a laboratory environment. We go beyond that. Besides conducting plenty of tests in a laboratory, we also test the practical side of our garments.

Continuous feedback has given us the opportunity to make what a user wants to wear and not what we want the user to wear. Therefore, a word of thanks to everyone that has given us his or her feedback. It is because of these contributions that we are able to keep redefining the standards of quality.

The rhino is marching around the world. Watch out, he might be coming to the next climbing competition or forestry show near you! Want to find out more: [www.sip-protection.com](http://www.sip-protection.com)





FORESTRY SHOW LIBRAMONT 2011



ETCC VIENNA 2011



**DID YOU KNOW?**

We have a stand on a great deal of forestry shows and climbing competitions. The main reason: we want to know the specific needs of the “green industry” workers. We offer you the opportunity to give feedback on our products. This is in fact the connecting thread in this catalogue. We make what you want us to make. Therefore, keep on visiting us at the upcoming event. And please tell us how you feel about our products. Because your comments do make the difference!



# SIP 6.1 RANGE

## TRADITIONAL STRETCH

Tree climbing: anything but a regular job. Constantly figuring out where to put your next step in order to prune, treat or even dismantle a tree in the most effective and safest way, being a tree climber is a job in which you need to be in top shape both mentally and physically. The life of a tree climber often literally hangs by a thread.

Ropes, harnesses, carabiner hooks, helmets and other essential gear need to be in top condition and of top-notch quality in order to assure safe working conditions at all times.

WITH THE INTRODUCTION OF  
**STRETCH FABRICS** IN THE  
« *SIP 6.1* » RANGE BACK IN 2006  
WE UNDERSTOOD THAT THE  
QUALITY OF CLOTHING IS JUST  
AS IMPORTANT AS THE QUALITY  
OF ANY OTHER GEAR A TREE  
CLIMBER NEEDS.

The fact that comfort has an immediate influence on safety became an inherent part of our thinking and a main priority in every product we launch. This pair of hard wearing basic 2-way stretch trousers in our range soon found its way to loggers in need of increased free movement as opposed to non-stretch trousers.

Many customers are extremely satisfied with its comfort, looks and flexibility. Just how you and we like it.

## KEY FEATURES OF THE « SIP 6.1 » RANGE:



### 2-WAY STRETCH OUTER FABRIC

INCREASED FREE MOVEMENT

The 2-way stretch fabric on the « SIP 6.1. » range was originally designed to meet the demands of tree climbers because of the need of free movement. Stretch fabric was a necessity. The down to earth design however quickly found its way to general forestry workers needing a pair of step-in stretch chainsaw trousers.



### STRETCHABLE KNEE REINFORCEMENTS

RESISTANT TO INTENSIVE USE

The ARMORTEX® light reinforcements on the knees provide that extra protection on the knees, the area most affected by abrasion while working. When resting on your knees while working on the ground or rubbing your knees against the trunk during treework, the necessity of durable reinforcements becomes very clear.

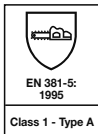
The stretch assures extra comfort while bending your knees.



### WATER REPELLENT TREATMENT

THE STRETCH FABRIC IS TREATED TO ENSURE WATER REPELLENCY

This treatment provides an extra comfort greatly welcome during drizzly rain that otherwise slowly would soak your pair of trousers rendering them heavy and uncomfortable.



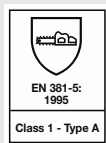
### CHAINSAW TROUSERS REF 1SQA - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Many people have decided upon these, and just as many are satisfied. These trousers were the first with a strong 2-way stretch outer fabric in our product range and they have proven their duty.*

*During trade shows, the sheer number of people coming up to us in order to state 'I have one of those, they are simply great' never ceases to amaze us. They have all experienced that which we continue to proclaim. Namely that we provide excellent value for money stretch chainsaw trousers.*

- KEY FEATURES:**
- 2-way stretch fabric
  - 2-way stretch ARMORTEX® light reinforcements on the knees
  - water repellent outer fabric



### TALL FIT CHAINSAW TROUSERS REF 1SQB - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*These pair of trousers have exactly the same characteristics as the 1SQA. However, with an inner leg 6 cm longer it particularly suits taller people.*

- KEY FEATURES:**
- same features as 1SQA
  - 6 cm inner leg length added



#### WHY CALF PROTECTION?

A great mass of sharp branches pointing every which way is no exception when fully grown trees are torn down. Such instances often require radical action in order to get things moving. Quickly de-branching the tree may be important, but so is watching your step. In these cases, adequate protection, - specifically the 1SPU\* - might be a necessity.

Also tree climbers are more and more frequently aware that calf protection might be something they need certainly when working with a chainsaw in the crown of a tree.

\*(Note: the 1SPU is not a type C full protection)

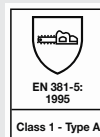


**WHY CALF PROTECTION?  
CERTAIN WORKING  
CIRCUMSTANCES  
DEMAND AN EXTRA  
PROTECTION!**



**CHAINSAW TROUSERS  
WITH CALF PROTECTION  
REF 1SPU - TYPE A**

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**



*This reference is another example of a product completely based on user feedback. Although still officially called a type A (as there isn't a standard for type A trousers with calf protection), these trousers are much more.*

*In addition to the blocking material at the front of the trousers we have also added extra protection at the back of the legs, from the knees to the bottom of the trousers.*

**KEY FEATURES:**

- identical outer fabric quality as 1SQA
- EN 381-5 protection - type A
- + extra calf protection

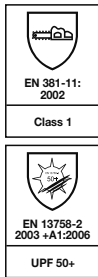
**ARMORTEX**



DETAIL: THE CHAINSAW PROTECTIVE AREA



### CHAINSAW JACKET WITH FULL FRONT PROTECTION REF 1SI7



Chainsaw protection conform to the European Standard **EN 381-11 - Class 1** + additional belly protection  
Solar UV protection conform to the European Standard **EN 13758-2**



*These chainsaw jackets are mostly worn when working with several people on site or with 2 people on a servicing platform.*

*It provides additional protection when dismantling a tree. With the chainsaw often dangerously nearing the abdomen (see picture) the chance of making a slip or a kickback in the wrong direction is always lurking around the corner.*

#### KEY FEATURES:

- arm and shoulder protection to EN 381-11
- + extra belly protection
- comfortable fit
- ergonomic collar



### WORKING JACKET REF 1SK7



Protection against mechanical factors that **cause superficial lesions**  
Solar UV protection conform to the European Standard **EN 13758-2**



*Working jacket matching the SIP 6.1 trousers. It gives you a neat and complete outfit.*

#### KEY FEATURES:

- comfortable fit
- ergonomic collar



**FULL FRONT PROTECTION  
OFFERS EXTRA SAFETY WHEN  
DISMANTELING A TREE.  
IT ALSO PROVIDES EXTRA  
PROTECTION WHILE WORKING  
ON A SERVICING PLATFORM.**





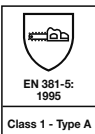
### CLIMBING TROUSERS REF 1SSK

Protection against mechanical factors that **cause superficial lesions**

*Comfortable, stretchable and light weight climbing trousers designed for working with a handsaw.*

#### KEY FEATURES:

- 2-way stretch fabric
- light and comfortable



### CHAINSAW COVERALL REF 1SCQ - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

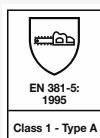
*This coverall combines the comfort of the 1SQA chainsaw trousers with a sleeveless jacket. Even though the benefits aren't obvious at first sight, a coverall prevents the infiltration of sawdust when sawing at hip-height.*

*Moreover the use of a belt or braces is less necessary or even completely ruled out because the coverall rests on your shoulders. The main advantage: during tree work, a t-shirt can easily slip out of a harness when wearing trousers. This coverall solves that problem, considering your back always remains covered.*

#### KEY FEATURES:

- identical fabric qualities as the 1SSK
- prevents infiltration of sawdust
- avoids the use of a belt or braces





### CHAINSAW TROUSERS REF 1SQ1 - TYPE A

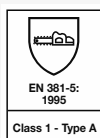
Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*The 1SQ1 is the first stop when looking for a light weight basic pair of stretch chainsaw trousers.*

*It excels in its simplicity with its basic stretch fabric and basic reinforcements in the knee area. Most suitable for hot weather and environments with little vegetation.*

#### KEY FEATURES:

- basic 4-way stretch fabric
- basic reinforcements



### TALL FIT CHAINSAW TROUSERS REF 1SR5 - TYPE A

Chainsaw protection conform to the European Standard  
**EN 381-5 - Class 1**

*This product is exactly the same as the 1SQ1 but has a longer leg length.*

#### KEY FEATURES:

- identical fabric qualities as the 1SQ1
- 6 cm added inner leg length (compared with 1SQ1)



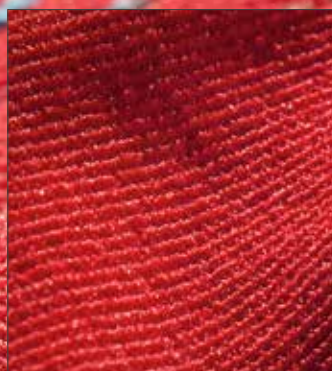
### WORKING JACKET REF 1SJ7

Protection against mechanical factors that **cause superficial lesions**

*Matching working jacket with the red 1SQ1 and its tall fit version 1SR5.*

#### KEY FEATURES:

- identical fabric qualities as the 1SQ1
- basic working jacket
- lively colors
- fleece collar



DETAIL: STRETCH COMFORT FABRIC

#### STRETCH COMFORT: BASIC 4-WAY STRETCH

The « Stretch Comfort » range was originally designed for tree workers (no ruler and no back pockets) in order to minimize the chances of getting stuck to a branch.

This range offers you freedom of movement at a very affordable price.



# SIP 6.1 OVERVIEW

## TRADITIONAL STRETCH

The table below gives an overview of the products within the range and allows you to compare each product. You will find a summary of all products with the corresponding page references on page 126.

We are happy to provide more in-depth technical information upon request.



### STANDARDS

EN 381-5	Class	1	1	1	-	1	1	1	1	-	-	-
	Type	A	A	A <sup>(1)</sup>	-	A	A	A	A	-	-	-
EN 381-11	Class	-	-	-	-	-	-	-	-	1 <sup>(2)</sup>	-	-

### FEATURES

3-needle stitching <sup>(3)</sup>	•	•	•	•	•	•	•	•	•	-	-	-
93% Polyamide - 7% Elasthane	•	•	•	•	•	-	-	-	•	•	-	-
93% Polyamide - 7% Lycra®	-	-	-	-	-	•	•	•	-	-	-	•
water repellent treatment	•	•	•	•	•	•	•	•	•	•	•	•
2-way stretch	•	•	•	•	•	•	•	•	•	•	•	•
4-way stretch	-	-	-	-	-	•	•	•	-	-	-	•
ventilation <sup>(4)</sup>	-	-	-	-	-	-	-	-	•	•	•	•

### DURABILITY

abrasion resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
thorn resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
strength of reinforcements	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

### USE

forestry	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
tree climbing	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
brush cutting	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

### COLOURS

colour ref.	684	684	835	494	494	494	517	494	684	684	494
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### SIZES

inner leg length (cm)	78	84	78	82,5	84	78	78	84	-	-	-
size table (page 130)	XS-3XL	S-3XL <sup>(5)</sup>	XS-3XL	XS-3XL	XS-3XL	2XS-3XL	2XS-3XL	XS-2XL <sup>(5)</sup>	S-3XL	S-2XL	XS-3XL
EN 340 <sup>(6)</sup>	2003	2003	2003	1998	2003	1998	1998	1998	2003	2008	1998

(1) the 1SPU offers additional calf protection  
 (2) the 1SI7 offers additional belly protection  
 (3) 3-needle stitching in the back seam  
 (4) thanks to back and/or armpit ventilation  
 (5) tall fit  
 (6) for appropriate size tabel, see page 130

# WE CARE ABOUT

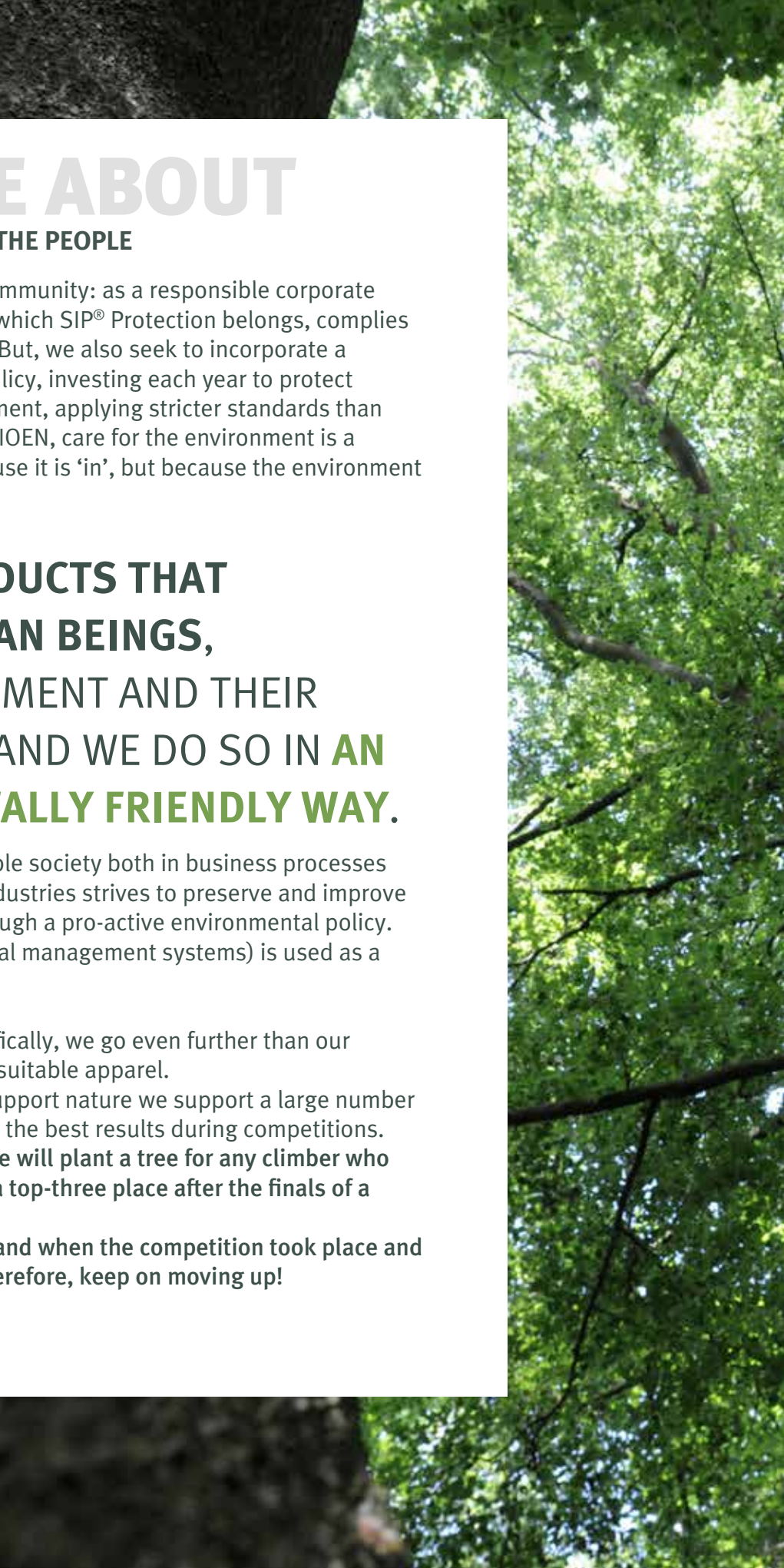
## THE ENVIRONMENT AND THE PEOPLE

What we give back to the community: as a responsible corporate citizen, the group SIOEN to which SIP® Protection belongs, complies with all legal requirements. But, we also seek to incorporate a pro-active environmental policy, investing each year to protect people, nature and environment, applying stricter standards than those required by law. For SIOEN, care for the environment is a constant concern. Not because it is 'in', but because the environment and safety concern us all.

# WE MAKE PRODUCTS THAT PROTECT HUMAN BEINGS, THEIR ENVIRONMENT AND THEIR POSSESSIONS AND WE DO SO IN AN ENVIRONMENTALLY FRIENDLY WAY.

SIOEN invests in a sustainable society both in business processes and relationships, SIOEN Industries strives to preserve and improve the global environment through a pro-active environmental policy. EN ISO 14001 (Environmental management systems) is used as a guidance reference.

As for SIP® Protection specifically, we go even further than our commitment to provide the suitable apparel. In the ongoing attempt to support nature we support a large number of tree climbers in obtaining the best results during competitions. But we do not stop there! **We will plant a tree for any climber who has succeeded in achieving a top-three place after the finals of a climbing competition.** Send us a picture of where and when the competition took place and we take care of the rest. Therefore, keep on moving up!



## RAW MATERIALS

We explicitly ask our suppliers for a declaration, in which they state that their companies know, support and have taken all necessary measures, to insure compliance with their legal obligations to have verified the same with their own European or non-European suppliers.

## ALTERNATIVE ENERGY

SIOEN has installed 1.713 m<sup>2</sup> of solar panels on the roof of our building in Ardoois. SIOEN will further reduce its carbon footprint significantly due to a new investment in solar panels (57.000 m<sup>2</sup> to be covered). This will reduce the yearly CO<sub>2</sub> exhaust with more than 1.000.000 kg.

## PRODUCTION

All our garments are hand-made. Manufacturing garments is a labour demanding activity. SIOEN employs over 3.500 people in our proper owned factories across the planet. We have a strict ethical charter regarding the respect for ethical, religious or cultural background of our staff and we strive to offer optimal working conditions.

## PACKAGING



We are a member of Val-i-Pac, which assures controlled management and the recycling of industrial packing waste. In addition, we ask our suppliers to limit the amount of packing material.

## TRANSPORT

In addition to our attention to CO<sub>2</sub> footprint, we consider other extremely important criteria such as service level, reliability and costs. This is one of the criteria for the selection of logistics partners.

## RECYCLING

We are actively trying to follow the latest technologies, possibilities and opportunities concerning recyclable materials.

### PLANT A TREE PROGRAM

Taking care of the environment means taking care of the people. This is logical but SIP® Protection takes it a step further. We have committed ourselves to support the “Plant a Tree Program”.

You will very soon be able to learn more about it on our website.

As it is too easy to just give away, we want you to help us. There is a large number of competitions in forestry, logging and tree climbing.

For every competitor getting on the podium in a pair of SIP® Protection trousers, whether in first, third or last place, we guarantee to plant a tree.

Send us a picture of you or your friends on the podium dressed in SIP® Protection trousers, add name, date and place of the competition, name of the people on the podium and their rank, and we'll do the rest: [info@sip-protection.com](mailto:info@sip-protection.com).

# PROGRESS

## PROGRESS COMFORT AND DURABILITY

The « *Progress* » range stands for progression. Progression to the highest level. Sometimes, extreme measures need to be taken in order to meet the requirements of extreme circumstances or expectations. In the same way, extreme clothing was conceived in order to meet the requirements and expectations of those who need just that extra. The range was launched in 2009 and the response was excellent. This wasn't a reason for us to rest on our laurels.

IN THE PROGRESS RANGE EACH PRODUCT NOW HAS ITS PARTICULAR PURPOSE, WHETHER IT IS FOR **TREE CLIMBING**, FOR **FORESTRY WORK** OR FOR **EXTREME WORKING CONDITIONS**.

Based on feedback from all types of end users we successfully improved our products, taking them to the highest level: quality and comfort wise. When it comes to comfort and durability, the « *Progress* » range is second-to-none.



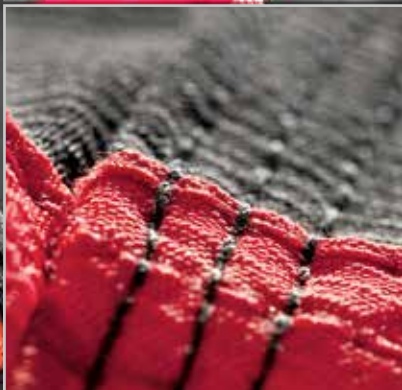
# PROGRESS

by SIP® PROTECTION

The distinctive horn shaped logo of the « Progress » range is based on the horn of the rhino in our SIP® Protection logo. It stands for **maximum obtainable comfort and durability**. Thanks to the combination of high quality fabrics such as ripstop **TEXXION** and **TEKTOR** it results in **ultimate safety**.

Remember, safety according to our high standards is the ultimate balance between protection and comfort.

## KEY FEATURES OF THE « PROGRESS » RANGE:



### HIGHLY DURABLE 4-WAY STRETCH OUTER FABRIC

MAXIMIZED FREE MOVEMENT  
MEETS EXTREME DURABILITY

TEXXION is a fabric we designed especially for this range and consists of 86% CORDURA® and 14% SPANDEX®.

The “ripstop” weaving method assures strong vegetation and thorns have a harder time to rip the fabric apart, hence the name “ripstop”.

Its 4-way stretch characteristics takes care of the comfort factor guaranteeing free movement.

CORDURA

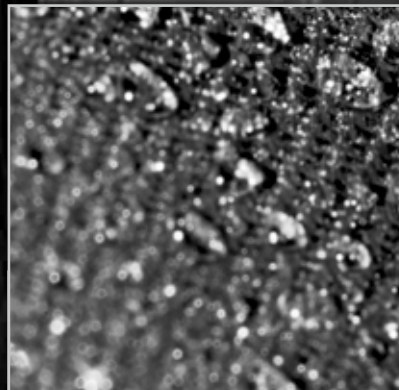


### STRETCHABLE REINFORCEMENTS

RESISTANT TO INTENSIVE USE

In the « Progress » range we take the meaning of the word “reinforcement” to the next level. ARMORTEX® LIGHT or TEKTOR LIGHT has a direct consequence on durability. On the other hand, the ergonomic shape of the reinforcements significantly increases wearing comfort as well as guaranteeing free movement.

These 2 advantages in combination with the ability of the reinforcements to stretch in 4 directions maximize comfort and ultimately make an important difference at the end of the day.



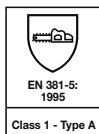
### WATER & SOIL REPELLENCY TREATMENT

THE STRETCH FABRIC HAS A DURABLE WATER & SOIL REPELLENT TREATMENT

During rainy periods an untreated pair of trousers can get baggy and heavy. The durable TEFLON® HP prevents this, assuring comfortable working conditions even during drizzly weather.



**THE PROGRESS RANGE  
IS SECOND TO NONE  
WHEN IT COMES TO  
COMFORT AND DURABILITY**



## CHAINSAW TROUSERS REF 1SQP - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**



*The classic chainsaw protective trousers in the « Progress » range unite the key features of the « Progress » range.*

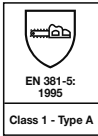
*Available since 2009, it has clearly proven its value thanks to a perfect fit and high durability. In order to meet all specific requirements for all types of chainsaw work in just one pair of trousers, we have added many variations on this model, each with different features for different needs.*

*If you liked this product, you will still like it, as it continues to offer great quality and comfort.*

### KEY FEATURES:

- key features of the « Progress » range
- 4-way stretch TEXXION fabric
- TEFLON® HP water & soil repellency treatment
- zipped pockets
- ARMORTEX® LIGHT reinforcements
- perfect fit





### CHAINSAW TROUSERS ARBORIST

#### REF 1SNA - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

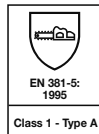
*At first sight the 1SNA (A for "Arborist") differs little from the 1SQP. However, looks can be deceiving. This is a pair of trousers especially designed for arborists. Their expectations of a pair of great chainsaw trousers are somewhat different from the expectations of those who mainly execute groundwork.*

**We dare to claim that these trousers answer most of the tree climbers' needs:**

- 4-way stretchable **TEXXION** fabric for **extreme flexibility**.
- a new blocking material based on **DYNEEMA®** reducing the weight of your chainsaw protection by 20%.
- ventilation zippers at the back of the legs to vent air on a hot day.
- **integrated gaiters** with a lace hook to keep sawdust from entering your boots & trousers.
- a waterproof **smartphone pocket** to protect your communication tool against both rain and sweat.

#### KEY FEATURES:

- key features of the « Progress » range
- new lightweight blocking material containing **DYNEEMA®**
- ventilation zippers at the back of the legs
- a waterproof smartphone pocket
- integrated gaiters avoiding sawdust
- preformed (convex-shaped) **ARMORTEX Light®** knee reinforcement
- **HYDURA** anti-wicking strip prevents water penetrating in the protective layer



### TALL FIT CHAINSAW TROUSERS ARBORIST

#### REF 1SNB - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*Elongated version of the 1SNA. The 6 cm elongated inner leg length will please taller arborists.*

#### KEY FEATURES:

- same features as 1SNA
- 6 cm inner leg length added

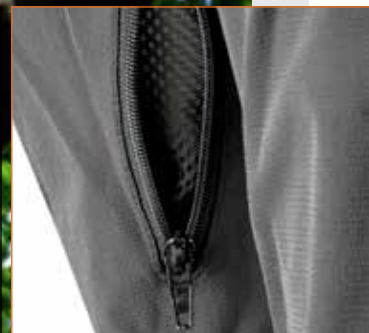


**WATERPROOF SMARTPHONE POCKET**

Keep your precious phone dry and clean with this adapted phone pocket. It prevents water infiltration from the outside and blocks perspiration from your body.

**VENTILATION ZIPPERS**

Ventilation zippers keep your body temperature at a comfortable level. And yes, we have thought of it... the height of the zippers are at the right level. They will not bother you when wearing a safety harness.

**CONVEX KNEE REINFORCEMENT**

4-way stretchable, pre-formed (convex), extremely strong.

These trousers will endure while others have long since given way.

**HYDURA PADDING**

The waterproof HYDURA anti-wicking strip prevents water penetration into the protective layer. With this, soaked trousers are a thing of the past!

**INTEGRATED GAITERS**

Gaiters prevent sawdust infiltration and the lace hook assures that the gaiters stay on your boots.



**ESPECIALLY DESIGNED  
FOR AND BY ARBORISTS.  
EXTREMELY LIGHTWEIGHT,  
VERY FLEXIBLE, VERY  
DURABLE AND VERY  
COMFORTABLE**



# TEKTOR

WHEN MANOEUVRING THROUGH VERY THICK BRUSH WITH PLENTY OF THORNS, **AN EXTREME ABRASION RESISTANT FABRIC IS NECESSARY IN ORDER TO COPE WITH THIS VEGETATION.**

TEKTOR is an extremely strong fabric on the 1SNR that replaces the TEXXION fabric on the front. TEXXION has a very high abrasion resistance level. Abrasion resistance determines for a large part the wearing life of a pair of trousers, but some environmental circumstances demand some additional reinforcements.

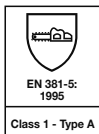
That is why TEKTOR is used on the biggest part of the front and below on the back of these trousers. So that you can easily face that tougher working environment.



DETAIL: TEKTOR FABRIC



DETAIL: TEXXION FABRIC



## CHAINSAW TROUSERS FOREST REF 1SNR - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**



*When manoeuvring through thicker brush with the more than occasional thorn, a more than abrasion resistant fabric is required to cope with this vegetation. That's why TEKTOR is used on the front part of these trousers. So that you can easily face a tougher working environment.*

### KEY FEATURES:

- key features of the « Progress » range
- new lightweight blocking material containing DYNEEMA®
- ventilation zippers at the back of the legs
- TEKTOR reinforced front
- 3D material at the back
- hook for fixing behind the laces
- preformed (convex-shaped) ARMORTEX® LIGHT knee reinforcement
- HYDURA anti-wicking strip prevents water penetration in the protective layer



### LIGHTWEIGHT BLOCKING MATERIAL

Why lightweight? Because maximizing comfort is one of our main priorities while working.

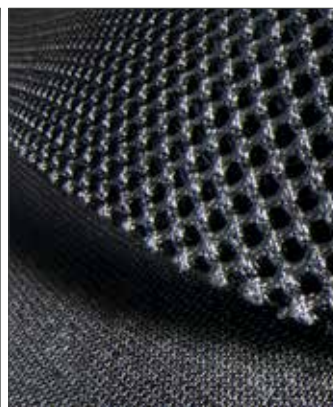
Blocking material usually takes up the brunt of the weight, but by using the lightweight DYNEEMA® blocking material, we have considerably reduced the weight up to 20%.



### TEKTOR FABRIC

TEKTOR is an in-house developed fabric capable of resisting **thick thorny brush** that would normally be able to damage the regular outer fabric. Choosing a TEKTOR reinforced chainsaw trousers depends entirely on the level of comfort you want and the kind of vegetation you are usually working in.

If you have ever found your current pair of chainsaw trousers was to be lacking in toughness go for a TEKTOR reinforced pair of trousers like the 1SNR.



### 3D MATERIAL: INCREASED VENTILATION

The 3D material on the backside of the trousers has a considerable influence on maximizing wearing comfort assuring comfortable working at all times. The 3D material allows air to circulate within the trousers and has a cushioning function.

As a consequence the fabric will not stick to your body and moreover will keep your body temperature at a comfortable level.

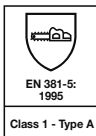


### VENTILATION ZIPPERS

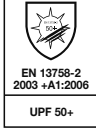
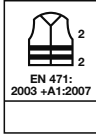
Ventilation zippers will keep your body temperature at a comfortable level because any excess body heat can be expelled.



### HI-VIS CHAINSAW TROUSERS REF 1SNS - TYPE A



Class 1 - Type A



Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**  
High visibility protection conform to the European Standard **EN 471 - Class 2-2**  
Solar UV protection conform to the European Standard **EN 13758-2 - UPF50+**

*Working along a road or in the vicinity of a road demands special modifications to a pair of chainsaw trousers namely being highly visible. On top of that, the 1SNS provides excellent comfort.*

*Wearing comfortable clothes increases your well-being, and hence your productivity. This is why we have used the same key qualities of the « Progress » range (ARMORTEX® LIGHT, TEXXION, TEFLON® HP, ...) on this pair of hi-vis « Progress » trousers.*

#### KEY FEATURES:

- key features of the « Progress » range
- high visible according to EN 471
- 4-way stretch TEXXION HV fabric
- new lightweight blocking material containing DYNEEMA®
- ventilation zippers at the back of the legs
- 3D material at the back
- hook for fixing behind the laces
- preformed (convex-shaped) ARMORTEX® LIGHT knee reinforcement
- HYDURA anti-wicking strip prevents water penetration in the protective layer

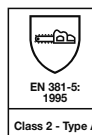




**SOME CIRCUMSTANCES  
ASK FOR MODIFICATIONS  
ON "REGULAR" CHAINSAW  
TROUSERS SUCH AS  
CLASS 2 PROTECTION  
OR HIGH VISIBILITY**



### CHAINSAW TROUSERS - CLASS 2 REF 1SQT - TYPE A



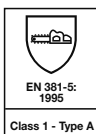
Chainsaw protection conform to the European Standard **EN 381-5 - Class 2**

*If class 1 chainsaw trousers (20 m/s) might not be enough to face your coming working situation, we created this « Progress » Class 2 style. It's based upon our well evaluated 1SQP, but with extra layers of blocking material, in order to meet EN 381-5 Class 2 requirements at 24 m/s.*

#### KEY FEATURES:

- key features of the « Progress » range
- chainsaw protection class 2 (24 m/s)





Class 1 - Type A



## CHAINSAW TROUSERS FOREST EXTREME

### REF 1SNX - TYPE A

Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*The 1SNX is all about toughness. Heavy vegetation of any kind, even high bramble bush, is no match for the TEKTOR HD reinforcements.*

*It has been especially conceived for the most demanding working conditions, in which an extremely strong pair of trousers is necessary in order to work comfortably.*

*So that you can focus on your work instead of on the environment in which you're working.*

#### KEY FEATURES:

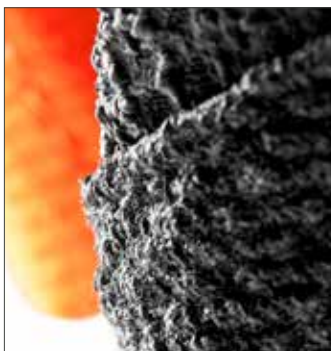
- key features of the « Progress » range
- new lightweight blocking material containing DYNEEMA®
- ventilation zippers at the back of the legs
- TEKTOR HD reinforced front
- 3D material at the back
- hook for fixing behind the laces
- preformed (convex-shaped) ARMORTEX® LIGHT knee reinforcement
- HYDURA anti-wicking strip prevents water penetration in the protective layer



#### LIGHTWEIGHT BLOCKING MATERIAL

Why lightweight? Because maximizing comfort is one of our main priorities while working.

Blocking material usually takes up the brunt of the weight, but by using the lightweight DYNEEMA® blocking material, we have considerably reduced the weight up to 20%.



#### TEKTOR HD FABRIC

TEKTOR HD is an in-house developed fabric capable of resisting **thick thorny brush and thorns in general (high bramble bush,...)** that would normally be able to damage the regular outer fabric. Choosing a TEKTOR HD reinforced chainsaw trousers depends entirely on the level of comfort you want and the kind of vegetation you are usually working in.

If you have ever found your current pair of chainsaw trousers was to be lacking in toughness go for a TEKTOR HD reinforced pair of trousers like the 1SNX.



#### VENTILATION ZIPPERS

Ventilation zippers will keep your body temperature at a comfortable level because any excess body heat can be expelled.



#### 3D MATERIAL: INCREASED VENTILATION

The 3D material on the backside of the trousers has a considerable influence on maximizing wearing comfort assuring comfortable working at all times. The 3D material allows air to circulate within the trousers and has a cushioning function.

As a consequence the fabric will not stick to your body and moreover will keep your body temperature at a comfortable level.

EVEN THE NASTIEST  
THORNS ARE NO MATCH  
FOR THE 1SNX.  
IDEAL FOR THE MOST  
EXTREME WORKING  
CONDITIONS

**TEKTOR<sup>HD</sup>**

TEKTOR HD (HEAVY DUTY) **TAKES THE DURABILITY OF THE “REGULAR” TEKTOR ON THE 1SNR EVEN ONE STEP HIGHER.**

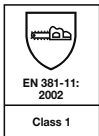
It renders your work more comfortable and TEKTOR HD significantly increases the life span of your pair of trousers because it is resistant to high and heavy bramble bush.



**IN MERE SECONDS,  
THIS JACKET CAN BE TURNED  
INTO A CHAINSAW JACKET  
WITH “INTEGRATED HARNESS  
FOR FALL PROTECTION”**



### CHAINSAW JACKET WITH FULL FRONT PROTECTION REF 1SIA



Chainsaw protection conform to the European Standard **EN 381-11 - Class 1** + additional belly protection

*These chainsaw jackets are mostly worn when working with several people on site or with 2 people working on a servicing platform.*

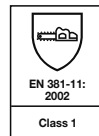
*It provides additional protection when dismantling a tree. With the chainsaw often dangerously nearing the abdomen, the chance of making a slip or a kickback in the wrong direction is always lurking around the corner.*

#### KEY FEATURES:

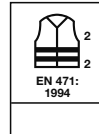
- key features of the « Progress » range
- EN 381-11 protection + **extra belly protection**
- possibility to fix harness (Ref. 1SLH)
- back and armpit ventilation by zippers
- waterproof smartphone pocket on the left arm



### HI-VIS CHAINSAW JACKET WITH FULL FRONT PROTECTION REF 1SIS



Chainsaw protection conform to the European Standard **EN 381-11 - Class 1** + additional belly protection  
High visibility protection conform to the European Standard **EN 471 - Class 2-2**



*Style based upon 1SIA, but is certified EN 471 class 2-2.*

#### KEY FEATURES:

- key features of the « Progress » range
- high visible according to EN 471
- EN 381-11 protection + **extra belly protection**
- possibility to fix harness (Ref. 1SLH)
- back and armpit ventilation by zippers
- waterproof smartphone pocket on the left arm



#### VENTILATION ZIPPERS

Ventilation zippers will keep your body temperature level because any excess body heat can be expelled.

In the « Progress » range, nothing is ordinary. This is also the case for these chainsaw jackets. At first sight, they look like normal, well-designed « Progress » jackets. Durable 4-way stretch TEXXION outer fabric and TEKTOR LIGHT reinforcements on shoulders and elbows provide optimal wearer comfort combined with durability. Ventilation zippers under the armpits assure ventilation.

**EN 381-11 class 1 protection added with full front protection assure you the highest level of protection available today.** When taking a closer look, you will notice the differences that make these jackets extra-ordinary. Nowadays, most the chainsaw jackets are being used for work at servicing platforms, so we looked at how we could increase your comfort and safety.

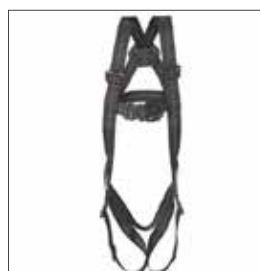


### Detachable liner with integrated fall arrest harness

By zipping this lining with the integrated fall arrest harness, you easily create your own fully integrated protective system. A clever system of coloured velcro fixations lets you easily take out the harness to personalize the fit or for annual inspection. Putting it all back together goes just as easily.

The main advantage of this solution is the comfort. It is much nicer working with the harness adjusted to your body than to your jacket. **The fit is better and as the pressure on your protective jacket is gone, the entirety of moving and flexing of and working feels a lot more comfortable.** You need to adjust your harness only once and it will stay adapted to your body even when you take your jacket off. After hours or when you don't need them, the leg straps can easily be put away in the double lining so that you can move without the straps bothering you. And finally, even with your harness on, you still have full access to all of the pockets in your jacket.

### How to integrate the liner with fall arrest harness into the chainsaw protective jacket?



**STEP 1**  
Put on the harness and adjust the buckles where needed to obtain the correct fit.



**STEP 2**  
Take the harness off and fit it into the lining. The lining is available in 5 different sizes (XS-3XL).



**STEP 3**  
Fix the zippers of the separate lining into the jacket.



**STEP 4**  
Pull the anchorage points through the openings, pull the lining from the inner waist of the jacket so that the leg straps will appear.



**STEP 5**  
Put on the jacket, fasten the snap locks and the harness is ready for use. Whether you prefer to work with a front or back anchorage point. The one-size-fits-all harness is fully detachable for annual inspection.

# SKALT

The Netherlands is the flattest country in the world, the reason why the Dutch have a healthy respect for heights. SKALT is a young and dynamic Dutch company that specializes in working at height.

## WORKING AT HEIGHT IS IN CONTINUOUS DEVELOPMENT AND MATERIALS **MUST MEET INCREASINGLY STRINGENT DEMANDS.**

This is why SKALT maintains close contact with a large group of SKALT users and assesses their experiences.

Together with SIOEN, SKALT developed the SKALT Protectum, a soft-shell windbreaker with integrated harness for fall protection. **This jacket won the AVAG Innovation Award in 2012 and gave birth to the idea of an integrated chainsaw jacket.**



### DETACHABLE LINING WITH INTEGRATED FALL ARREST HARNESS **REF 1SLH**

*By zipping this lining with the integrated fall arrest harness, you easily create your own fully integrated protective system.*

#### KEY FEATURES:

- lining can be fixed into chainsaw jackets ref. 1SIA en 1SIS
- harness with 2 anchor points: front and back
- harness adjustable to your body

**WORKING JACKET  
REF 1SKP**



Protection against mechanical factors that **cause superficial lesions**

The classic working jacket of the « Progress » range packs all basic features namely:

- 4-way stretchable **TEXXION** fabric for **extreme flexibility**
- **ARMORTEX® LIGHT** reinforcements
- **TEFLON® HP** water & soil repellency finish

The 1SKP has been in service for a few years now and over that period we carefully listened to feedback, which allowed us to further develop the comfort of the newer jackets like the 1SKA.

**KEY FEATURES:**

- key features of the « Progress » range
- 4-way stretch **TEXXION** fabric
- **TEFLON® HP** water & soil repellency treatment
- back ventilation
- detachable sleeves



**WORKING JACKET  
REF 1SKA**



Protection against mechanical factors that **cause superficial lesions**  
Solar UV protection conform to the European Standard **EN 13758-2 - UPF50+**

*This non-chainsaw protective working jacket packs all the key « Progress » features but a large number of clever modifications significantly increase wearing comfort.*

*Meets the demands of both tree and forestry workers of a durable and extremely comfortable working jacket.*

**KEY FEATURES:**

- key features of the « Progress » range
- back and armpit ventilation
- smartphone pocket on the left arm
- ergonomic collar
- comfort cuffs in the sleeves
- adjustable waist
- 3D material on the shoulders and back



DETAIL: COMFORT CUFFS



DETAIL: ADJUSTABLE WAIST



DETAIL: BACK VENTILATION

# THE IDEAL WORKING JACKET MATCHING THE TROUSERS OF THE PROGRESS RANGE: ULTRA STRONG, HIGHLY VISIBLE AND EXTREMELY COMFORTABLE



DETAIL: ARMPIT VENTILATION (REF. 1SKA)

## VENTILATION

Ventilation zippers will keep your body temperature level at a comfortable level because any excess body heat can be expelled.

For the 1SKP, we have chosen for a back ventilation and closing by press studs. For the 1SKA, we have chosen for both back and armpit ventilation with mesh for a higher wearing comfort.





LOGO KWF-PROFI

### KWF-PROFI

Technical tools for forestry, which have been thoroughly tested by the KWF, are distinguished with the “KWF-PROFI” signature. They comply to all requirements of current technical standards, particularly economic, security, ergonomic and ecological standards. The tests include technical measurements, practical tests in forestry and enquiries about the application of the tools. In case of positive results, the competent test committee decides on the “FPA approved” and, if necessary, on the obligation of further improvements.

The new test approval sign will replace the previous sign “KWF-Gebrauchswert” and the older FPA sign (technical forestry test committee of the KWF), which has been the emblem for approved forestry techniques for over 50 years. The new sign is identical in content, but at the same time it refers to the competent test authority by means of the KWF logo. Look for this logo for products already certified.



LOGO KWF-STANDARD

### KWF-STANDARD

The newly introduced KWF sign carries the name “standard”. All the test objects, PROFi as well as STANDARD, go through a series of use value tests (practice tests).

All safety aspects must under any given circumstance be fulfilled in order to achieve one of the two KWF approvals. The KWF approval “standard” is especially applicable to products of the highest expectations being used in professional logging applications. It can be obtained, according to the product group, based on used materials, wearing comfort, weight and similar criteria. For most product groups these criteria are fixed.

They are constantly adapted according to the latest technologies. Thanks to the new label “KWF-standard”, the occasional user – for instance a person who cuts firewood – can with proven certainty rely on a satisfying product, within the limits of his budget.



LOGO KWF-TEST

### KWF-TEST

With the label “KWF-test” products are selected that have been successfully tested for specific properties for instance measuring equipment for crane harvesters, function for tire pressure controllers etc... For forestry clothing this would be a specific characteristic such as “high wearing comfort” The KWF-test label is a sign of approval of the tested characteristics. The 1SSP is an example of KWF-test labeled product.

## THE KWF IS THE COMPETENCE CENTRE FOR FORESTRY WORK, FORESTRY TECHNOLOGY AND WOOD LOGISTICS IN GERMANY AND EUROPE AND PROVIDES ADVICE TO ALL KEY PLAYERS IN THE FORESTRY, WOOD AND BIO-ENERGY SECTORS.

“The German Center for Forest Work and Technology (KWF) is a registered non-profit association and is supported by 2000 members. The KWF is the competence centre for forestry work, forestry technology and wood logistics in Germany and Europe and provides advice to all key players in the forestry, wood and bio-energy sectors. It is available as an interlocutor to everybody. As a transnational non-profit organization, the KWF focuses on all major tasks for securing the future, avoiding accidents and protecting the environment in a precautionary way. This makes the KWF exemplary for a joint, efficient and future-oriented execution of tasks by the German Federal Government and the Leander.

**The KWF is the only organization that examines and certifies forestry technology, tools, supplies and protection equipment at the national and transnational level.** In doing so, the KWF grants the coveted trade-in value mark, the KWF test mark, but also the DPLF (German Test Center for Agricultural and Forestry Machinery) mark and the GS (Tested Safety) mark. Furthermore, the KWF fulfills a cross-sectional function bridging the worlds of research, practice and industry for the areas of forestry, wood and bio-energy. In these areas, the association is also available as a project partner.

In simple words, EN 381 gives you an answer regarding the safety of your chainsaw garment, an FPA approval gives you a good indication about comfort and the lifetime quality of your garment, based upon a full year wearing test in 12 different locations, by professional users.



## CLIMBING TROUSERS REF 1SSP



Protection against mechanical factors that **cause superficial lesions**

*Excellent pair of trousers without chainsaw protection.*



*Since their first appearance they have changed little and certainly not as far as overall design and quality are concerned.*

*If we have changed anything, it has been for the better, such as a waterproof zipped smartphone pocket and gaiters. Many know them as climbing trousers. Some see them as their preferred hiking trousers. Others like them for gardening, ...*

*The fit is great. The looks are nice. The comfort is excellent. The lifetime is beyond expectations. What more can you expect from your favourite trousers?*

### KEY FEATURES:

- key features of the « Progress » range
- 4-way stretch TEXXION fabric
- TEFLON® HP water & soil repellency treatment
- waterproof smartphone pocket
- integrated gaiters
- KWF test: “hoher Trageskomfort” meaning “high wearing comfort”

**CORDURA**  
by DURA



DETAIL: WATERPROOF SMARTPHONE POCKET



DETAIL: INTEGRATED GAITERS



# PROGRESS OVERVIEW

## PROGRESS COMFORT AND DURABILITY

The table below gives an overview of the products within the range and allows you to compare each product. You will find a summary of all products with the corresponding page references on page 126.

We are happy to provide more in-depth technical information upon request.



<b>1SQP</b> TROUSERS page 55	<b>1SQP</b> TROUSERS page 55	<b>1SQP</b> TROUSERS page 55	<b>1SNA</b> TROUSERS page 56	<b>1SNA</b> TROUSERS page 56	<b>1SNB</b> TROUSERS page 56	<b>1SNR</b> TROUSERS page 59	<b>1SNR</b> TROUSERS page 59	<b>1SNS</b> TROUSERS page 60	<b>1SQT</b> TROUSERS page 61	<b>1SNX</b> TROUSERS page 62	<b>1SNX</b> TROUSERS page 62	<b>1SSP</b> TROUSERS page 71	<b>1SSP</b> TROUSERS page 71	<b>1SSP</b> TROUSERS page 71
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### STANDARDS

EN 381-5	Class	1	1	1	1	1	1	1	1	1	2	1	1	-	-	-
	Type	A	A	A	A	A	A	A	A	A	A	A	A	-	-	-
EN 381-11	Class	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EN 471	Class	-	-	-	-	-	-	-	-	2-2	-	-	-	-	-	-

### FEATURES

3-needle stitching <sup>(1)</sup>	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TEXXION	•	•	•	•	•	•	•	•	-	•	•	•	•	•	•	•
TEXXION HV	-	-	-	-	-	-	-	-	•	-	-	-	-	-	-	-
water repellent treatment <sup>(2)</sup>	•	•	•	•	•	•	•	•	-	•	•	•	•	•	•	•
4-way stretch	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
ventilation <sup>(3)</sup>	-	-	-	•	•	•	•	•	•	-	•	•	-	-	-	-
weight reduction (DYNEEMA®)	-	-	-	-	•	•	•	•	•	-	•	•	-	-	-	-
3D material	-	-	-	-	-	•	•	•	•	-	•	•	-	-	-	-
anti-wicking (HYDURA)	-	-	-	•	•	•	•	•	•	-	•	•	-	-	-	-
integrated gaiters	-	-	-	•	•	•	-	-	-	-	-	-	•	•	•	•

### DURABILITY

abrasion resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
thorn resistant	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
strength of reinforcements	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

### USE

forestry	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
tree climbing	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
brush cutting	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

### COLOURS

colour ref.	835	834	833	835	833	835	832	830	183	833	832	830	835	834	833
-------------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

### SIZES

inner leg length (cm)	82	82	82	82	82	86	82	82	82	82	82	82	85	85	85
size table (page 130)	XS-3XL	XS-3XL	XS-3XL	XS-3XL	XS-3XL	S-2XL <sup>(4)</sup>	XS-3XL	XS-3XL	XS-3XL	XS-3XL	XS-3XL	XS-3XL	XS-3XL	XS-3XL	XS-3XL
EN 340 <sup>(5)</sup>	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	2003	1998	1998	1998

(1) 3-needle stitching in the back seam  
 (2) water repellent treatment thanks to TEFLON® HP (High Performance)  
 (3) zippers at the back  
 (4) tall fit  
 (5) for appropriate size table, see page 130



<b>1SIA</b> JACKET page 65	<b>1SIA</b> JACKET page 65	<b>1SLH</b> LINING page 67	<b>1SIS</b> JACKET page 65	<b>1SKP</b> JACKET page 68	<b>1SKP</b> JACKET page 68	<b>1SKP</b> JACKET page 68	<b>1SKA</b> JACKET page 68	<b>1SKA</b> JACKET page 68	<b>1SKA</b> JACKET page 68
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## STANDARDS

EN 381-11	Class	1	1	-	1	-	-	-	-	-	-
EN 471	Class	-	-	-	2-2	-	-	-	-	-	-

## FEATURES

TEXXION & TEXXION HV	•	•	-	•	•	•	•	•	•	•
water repellent treatment <sup>(1)</sup>	•	•	-	•	•	•	•	•	•	•
4-way stretch	•	•	-	•	•	•	•	•	•	•
ventilation <sup>(2)</sup>	•	•	-	•	•	•	•	•	•	•
weight reduction (DYNEEMA®)	-	-	-	-	-	-	-	-	-	-
3D material	-	-	-	-	-	-	-	•	•	•
comfort cuffs	-	-	-	-	-	-	-	•	•	•

## DURABILITY

abrasion resistant	●●●●●	●●●●●	-	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
thorn resistant	●●●●●	●●●●●	-	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
strength of reinforcements	●●●●●	●●●●●	-	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

## USE

forestry	●●●●●	●●●●●	-	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
tree climbing	●●●●●	●●●●●	-	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
brush cutting	●●●●●	●●●●●	-	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

## COLOURS

colour ref.	908	907	N05	908	832	831	830	908	930	907
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## SIZES

size table (page 130)	XS-3XL	XS-3XL	XS - 3XL	S-2XL	S-3XL	S-3XL	S-3XL	XS-3XL	XS-3XL	XS-3XL
EN 340 <sup>(3)</sup>	2003	2003	2003	2003	1998	1998	1998	2003	2003	2003

(1) water repellent treatment thanks to TEFLON® HP (High Performance)

(2) thanks to back ventilation and/or armpit ventilation

(3) for appropriate size tabel, see page 130



# CARE INSTRUCTIONS

## TAKING CARE OF YOUR PROTECTIVE CLOTHING

The protective system used in SIP® Protection clothing is a combination of a number of immobilization and speed reduction principles of the chainsaw.

Because of the unique features of the SIP® Protection anti-cut material, we can manufacture products, which comply with the European Standard EN 381, and which are light, comfortable and easy to maintain.

## MAINTENANCE IS OF UTMOST IMPORTANCE TO MAKE SURE THAT THE INDEPENDENT LAYERS WITHIN THE PROTECTIVE INLAY DO NOT STICK TOGETHER, OR ARE DAMAGED IN ANY WAY, THUS DECREASING THE LEVEL OF PROTECTION.

Compare it, if you will, to a car. Without occasionally servicing your brakes, you will not be driving safely. Each garment you will get comes with a separate manual about how to properly wash and dry.

Whenever you have a question on the maintenance of your garment, please carefully read the user instructions that are added to every single packaging.

Below you'll find a summary of the meaning of the wash & care symbols. Find the correct washing instructions on the label in your garment.

- |  |   |  |  |
|--|---|--|--|
|  | normal washing at advised temperature   |  | all solvents normally used                   |
|  | max. at the advised temperature / reduced mechanical action / rinsing at decreasing temperature (cooling down) / reduced spinning |  | all solvents except trichlorethylene         |
|  | hand wash only / no machine wash / max. 40 ° / handle with care   |  | only petroleum solvents and R113             |
|  | do not wash   |  | limited movements                            |
|  | do not use chlorine-based bleach  |  | do not dry clean                             |
|  | tumble drying / normal cycle  |  | high max. 200°C                              |
|  | tumble drying / lower cycle   |  | max. 150°C                                   |
|  | do not tumble dry   |  | low max. 110°C<br>steam-ironing may be risky |
|  |   |  | do not ironing / no steam treatments         |



## When to go for new chainsaw protective clothing?

This depends entirely on the frequency of use. When maintained properly the quality of our products assures adequate protection for a maximum amount of time.

The lifetime of your trousers will depend on the intensity of use (are you a daily or occasional user), on the roughness of the environment (thorns,...) and on the style of trousers you have selected.

## What are the main causes of a possible decrease in the level of protection?

### DIRT & GREASE

Substances such as resin, chainsaw oil, gasoline, ... might potentially soil the protective inlay and might cause the independent protective layers to stick together.



### HEAT

Direct contact with a heat source e.g. a hot motor. This can induce a crusting or burning through process damaging the protective inlay and shortening the independent fibres.

Be careful, even if your outer fabric is not visibly damaged by a heat source, the fibres that lie beneath may have suffered from the heat resulting in a reduced level of protection.



### SHRINKAGE / TUMBLE DRYING

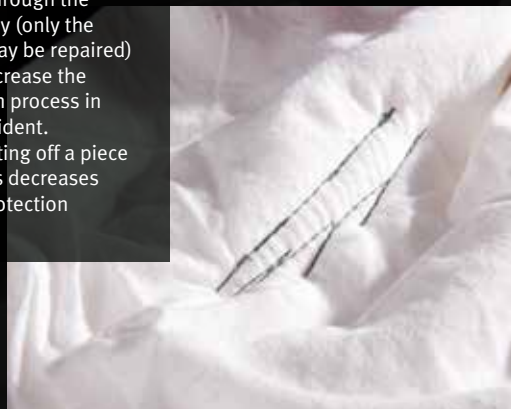
Shrinkage decreases the level of protection because it might significantly reform the original shape of the protective layer.

Tumble drying of chainsaw protective clothing might disturb the shape of the protective inlay lowering efficiency.




### WRONG STITCHING

Never stitch through the protective inlay (only the outer fabric may be repaired) as this will decrease the immobilization process in case of an accident. Of course, cutting off a piece of the trousers decreases the level of protection significantly.




# SPECIFIC APPLICATIONS



 starts at page 78


**AN INTERVENTION CAN ONLY BE ASSURED WHEN APPROPRIATE CLOTHING CAN BE TAKEN ON SWIFTLY. EVERY SPLIT SECOND COUNTS !**



 starts at page 82


**BRUSH CUTTING COMES WITH A NUMBER OF INCONVENIENCIES CAUSED BY THE FAST ROTATION OF THE ROTARY THREAD OR STEEL DISK**



 starts at page 86

**SPRAYING AND  
HANDLING CHEMICALS  
CAN BE HARMFUL  
FOR YOUR HEALTH**



 starts at page 88

**OUR MULTI-LAYERING  
CONCEPT CONSISTS OF  
3 INDEPENDENT LAYERS  
THAN CAN EITHER BE  
USED SEPARATELY OR  
COMPLEMENTARY**

# SPECIFIC APPLICATIONS

## INTERVENTION

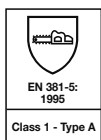
These products offer chainsaw and non-chainsaw protective solutions for **firefighters and intervention teams**. As each job requires a different approach, specific apparel meets specific demands. Consider the specific characteristics found in the apparel of rescue workers, facilitating a smooth intervention.

SIP® Protection offers 3 products designed specifically for intervention teams. They all have the same common properties:

- 1) **They need to be easy to take on and easy to take off** to assure swift intervention because they can be zipped-in or zipped-off quickly.
- 2) Interventions are often executed either during foul weather conditions or during night time. Consequently they need to be **highly visible thanks to lively colours or retro-reflective stripings**.
- 3) Salvage operations are rarely executed in non-hostile environments. A collapsed building, mountainous terrains or caves are a reality when it comes to rescue operations. A **strong, water repellent, stretchable** and **comfortable fabric** is necessary to assure that the wearer keeps his mind on the job without bothering about the working environment.



**CHAINSAW LEGGINGS**  
**REF 1ST4 - TYPE A**



Chainsaw protection conform to the European Standard **EN 381-5 - Class 1**

*These are the more basic leggings. Safety and quality wise they are the same as the leggings from the « Tradition » range 1ST2 and 1ST3, but we added reflective striping for better visibility.*

**KEY FEATURES:**

- easy ZipOn-ZipOff
- closing with elasticated belt
- reflective striping on the lower part of the legs

**SIZES:**  
uni



**EXTENSION FOR LEGGINGS**  
**REF 1SX8**

*For people with thicker calves who want the benefits of a legging, an extension can easily be zipped in to increase free space between the legs and legging.*

**KEY FEATURES:**

- can be zipped in legging 1ST4

**SIZES:**  
uni



**INTERVENTIONS ARE OFTEN EXECUTED EITHER DURING FOUL WEATHER CONDITIONS OR DURING NIGHT TIME.**

**HI-VIS CHAINSAW LEGGINGS - CLASS 2  
REF 1SU8 - TYPE A**

Chainsaw protection conform to the European Standard **EN 381-5 - Class 2**  
High visibility protection conform to the European Standard **EN 471 - Class 2-2**

*Especially for firefighters we have conceived dedicated garments. Easy to put on, class 2 certified in both EN 381-5 and EN 471. A quick intervention can only be assured when the appropriate clothing can be zipped on and be taken off swiftly. That's why leggings are a logic choice.*

*Firemen use highly professional equipment. This includes a powerful chainsaw. That's why these leggings are class 2 certified. Firemen often execute their job on a public road and should easily be seen. That's why these leggings are high-vis class 2 certified. Firemen are often required in foul weather conditions. That is why we use a waterproof and breathable SIOPOR® outer fabric.*

**KEY FEATURES:**

- high visible according to EN 471
- easy ZipOn-ZipOff
- one size fits all, adapted to fit even on a firefighter's intervention suit.
- chainsaw protection class 2 (24m/s)

**SIZES:**

uni

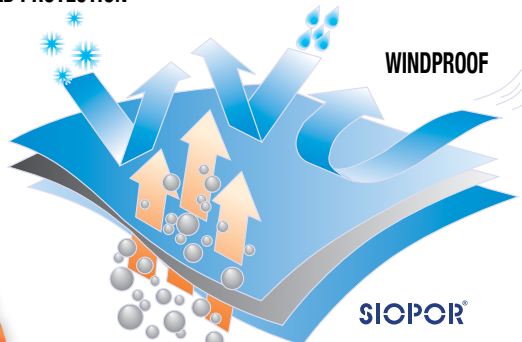
**SIOPOR®**



**COLD PROTECTION**

**WATERPROOF**

**WINDPROOF**



**BREATHABLE**

**SIOPOR® OUTER FABRIC**

*Breathable, waterproof, windproof and good cold protection.*

SIOPOR® is the top of the range material if your aim is to combine efficient protection and superior comfort.

SIOPOR® garments are created to protect you against pouring rain and fierce wind. Simultaneously SIOPOR® offers you optimum comfort due to its excellent breathability. The SIOPOR® range consists of a careful selection of different outer fabrics, combined with an appropriate coating which guarantees you optimum protection and comfort during all possible applications.



**RESCUE COVERALL  
REF 1SCG**

Protection against mechanical factors that **cause superficial lesions**

*Entirely designed for and by rescue workers. A rescue division specializes in interventions in reconnaissance and salvage operations in dangerous natural and artificial environments where both qualifications and apparel of the regular fire-department come up short.*

*These rescue workers need 100% dedicated clothing to allow them to execute their job as quickly, as efficiently and as safe as possible.*

**KEY FEATURES:**

- extremely hard wearing 4-way stretch ripstop TEXXION fabric
- preformed (convex-shaped) TEKTOR® reinforcements on knees, bottom and elbows
- a large number of well-designed pockets on the right places

**SIZES:**  
S-2XL



# A RESCUE WORKER OF A RESCUE TEAM NEEDS HARD WEARING DEDICATED APPAREL FOR INTERVENTIONS IN RECONNAISSANCE- AND SALVAGE OPERATIONS



## REFLECTIVE STRIPING AND RED TEXXION

During daylight the highly visible red makes sure the rescue or salvage worker is seen by the rest of the team. When night falls the retro-reflective striping reveals the presence of the rescue worker whenever light comes in contact with the reflective stripings.



## WATER PROOF 4-WAY STRETCH TEXXION

Salvage operations are rarely executed in non-hostile environments. A collapsed building, mountainous terrains or caves are a reality when it comes to rescue operations. A strong, water repellent, stretchable and comfortable fabric is necessary to assure that the wearer keeps his mind on the job, without bothering about the working environment.



## TEKTOR REINFORCEMENTS

Crawling on knees and arms is sometimes necessary in order to reach a certain spot.

The TEKTOR reinforcements on knees and elbows are especially designed to resist heavy friction and rubbing even against sharper objects, provide the rescue worker the reinforcements he or she deserves.

# SPECIFIC APPLICATIONS

## BRUSH CUTTING

Brush cutting comes with a number of inconveniencies caused by the fast rotation of the rotary thread or steel disk:

- 1) **Projected debris can cause bruises** on the tibia (shin bone) and can sometimes even result in deep wounds when not wearing appropriate protection. That is why our brush cutting trousers all have some kind of foam on the lower leg; to absorb the impact and increase your working comfort.
- 2) **Debris such as grass and weeds stick to your pants** rendering them wet, dirty, heavy and uncomfortable when using traditional non-waterproof textiles.
- 3) While working alongside a public road the rotating element on the brush cutter **throws up all sorts of dirt, including dog and cat crap**. Obviously, this can be quite inconvenient. In these cases, wearing waterproof clothing from which dirt can easily be washed off is hygienic necessity rather than a luxury.



**BRUSH CUTTING TROUSERS**  
**REF 1SQ8**

Protection **against flying debris**

*Especially suitable for brush cutting in warm weather conditions.*

**KEY FEATURES:**

- waterproof polyamide front
- easy to wipe or rinse off dirt
- **fixed** impact-resistant foam
- extremely lightweight
- suitable for warm weather conditions



**BRUSH CUTTING TROUSERS**  
**REF 1SQ4**

Protection **against flying debris**

*Especially suitable for brush cutting in wet and colder conditions.*

**KEY FEATURES:**

- one size fits all
- waterproof TEXOFLEX® front
- easy to wipe or rinse off dirt
- **removable** high density impact-resistant foam
- suitable for wet working conditions



**HI-VIS BRUSH CUTTING TROUSERS**  
**REF 1SQ5**

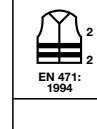
Protection **against flying debris**

High visibility protection conform to the European Standard  
**EN 471 - Class 2-2**

*The 1SQ5 has the same properties as the 1SQ4 but is the high-visibility option of the 1SQ4.*

**KEY FEATURES:**

- same features as the 1SQ4
- high visible according to EN 471
- **removable** high density impact-resistant foam
- suitable for wet working conditions





OUR  
BRUSH CUTTING  
PRODUCTS  
PROTECT  
AGAINST HEAVY  
PROJECTIONS  
OF DEBRIS



### BRUSH CUTTING LEGGING REF 1ST8

Protection **against flying debris**



*This product has similar user advantages as the 1SQ8. However, a legging offers 3 specific advantages:*

- increased ventilation
- easy to put on and easy to take off
- one size that fits all sizes, whether you are big or small, a legging is designed in such way it fits all sizes

#### KEY FEATURES:

- one size fits all
- waterproof polyamide front
- easy to wipe or rinse off dirt
- **fixed** impact-resistant foam
- easy to put on, easy take off



# PROJECTED DEBRIS CAN CAUSE BRUISES ON THE TIBIA AND CAN SOMETIMES EVEN RESULT IN DEEP WOUNDS WHEN NOT WEARING APPROPRIATE PROTECTION



## BRUSH CUTTING APRON REF 5SA3

Protection **against**  
**flying debris**

*The leather brush cutting apron is perfectly suitable for warm and dry weather conditions.*

### KEY FEATURES:

- one size fits all
- suitable for warm and dry weather conditions



## BRUSH CUTTING APRON REF 5SA2

Protection **against**  
**flying debris**

*This apron can be fixed with bindings around the neck, waist and both legs and provides moderate protection against projections against the tibia. it is suited for use in dry weather.*

### KEY FEATURES:

- one size fits all
- covers almost the whole front of the body
- suitable for dry weather conditions



## BRUSH CUTTING GAITERS REF 1SX4

Protection **against**  
**flying debris**

*Gaiters provide adequate protection against flying debris and protect the bottom of the trousers.*

### KEY FEATURES:

- one size fits all
- can be used as a trousers protector (low vegetation)

### SIZES:

uni



## TIBIA PROTECTORS REF 5SA1

Protection **against**  
**flying debris**

*Tibia protectors offer a decent protection against severe impacts against the tibia.*

### KEY FEATURES:

- one size fits all

### SIZES:

uni





**HEDGE TRIMMING CHAPS**  
**REF 1STE**

Protection **against flying debris**

*When not paying serious attention, a hedge trimmer can easily cause nasty cuts to the skin. Not without reason it is often cited that a hedge trimmer is one of the most dangerous garden tools on the market.*

*Untill recently, remarkably little effort was made to provide the appropriate clothing for people using a hedge trimmer because there is no such thing as a standard for hedge trimming.*

**KEY FEATURES:**

- **removable** impact-resistant foam
- ultra strong fibers inside the chaps
- easy click-on, click-off system



DETAIL: CLICK-ON, CLICK OFF SYSTEM



DETAIL: REMOVABLE IMPACT FOAM

# BRUSH CUTTING OVERVIEW

The table below gives you an overview of the products within the range and allows you to compare each product the one next to the other.



**1SQ8**  
TROUSERS  
page 82

**1SQ4**  
TROUSERS  
page 82

**1SQ5**  
TROUSERS  
page 82

**1SQ5**  
TROUSERS  
page 82

**1ST8**  
TROUSERS  
page 83

**1STE**  
CHAPS  
page 85

**5SA3**  
APRON  
page 84

**5SA2**  
APRON  
page 84

**STANDARDS**

EN 471	Class	-	-	2-2	2-2	-	-	-
--------	-------	---	---	-----	-----	---	---	---

**FEATURES**

waterproof front	•	•	•	•	•	-	-	-
ventilation	-	-	-	-	•	•	•	•
removable foam	-	•	•	•	-	•	•	•

**DURABILITY**

abrasion resistant	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
thorn resistant	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●

**COLOURS**

colour ref.	517	509	511	510	517	503	WJ0	WJ0
-------------	-----	-----	-----	-----	-----	-----	-----	-----

**SIZES**

size table (page 130)	XS-4XL	XS-4XL	XS-3XL	XS-3XL	UNI	UNI	UNI	UNI
EN 340 <sup>(4)</sup>	1998	1998	1998	1998	-	-	-	-

(1) for appropriate size tabel, see page 130

# SPECIFIC APPLICATIONS

## SPRAY PROTECTION

Today a lot of European farmers protect themselves with cotton or cotton/polyester coveralls. And for some low risk chemicals (such as highly diluted application formulations) this is believed to be sufficient. However...

- 1) during some tasks such as **mixing or loading liquid herbicides, pesticides, fungicides etc...** a worker can easily come into contact with concentrated formulations. Dedicated apparel is a must during these kind of tasks
- 2) a chemical can penetrate any fabric, as long as it gets through the seams. **That's why our seams are high frequency welded.**
- 3) the spray of a chemical can go in every direction as the wind blows. That's why the spray protective jacket is equipped **with a fixed hood and a bib & brace** was chosen instead of the pair of trousers to be sure no part of the body is left un-covered.



**FLEXOTHANE® 3D MATERIAL**

FLEXOTHANE® 3D offers a high level of mechanical strength and cut resistance.

Thanks to the special 3-dimensional fabric, on top of a high mechanical strength, (tear strength, breaking strength and abrasion resistant), it even offers a degree of shock absorption.

**HALF MASK RESPIRATOR**

In combination with the spray suits, we can provide a maximized level of protection when you are also wearing a half mask respirator.

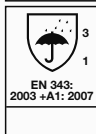
 *For more info about the half mask respirator see page 119*



### SPRAY PROTECTIVE RAIN JACKET REF 4821

Protection against liquid chemicals conform to the European Standards **EN 14605 and 14786**

Protection against rain conform to the European Standard **EN 343 - Classe 3-1**



*This jacket provides adequate protection against a series of inconveniences and risks linked to the use of pesticides and herbicides.*

*Whether a tree needs to be treated against aggressive fungus or harmful insects, a protection against the spray of a chemical product is very important and even indispensable during mixing and loading the chemical prior to diluting.*

#### KEY FEATURES:

- waterproof FLEXOTHANE® fabric
- chemical spray protection (tested)
- protection against liquid chemicals PB{4}

**SIZES:**  
S-3XL

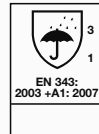
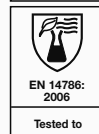
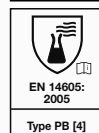
**FLEXOTHANE®**



### SPRAY PROTECTIVE RAIN BIB & BRACE REF 4605

Protection against liquid chemicals conform to the European Standards **EN 14605 and 14786**

Protection against rain conform to the European Standard **EN 343 - Classe 3-1**



*This bib & brace that accompanies the anti-spray rain jacket (Ref. 4821) provides the same protection as the vest but on the lower part of the body.*

*For higher protection and to increase durability we added FLEXOTHANE® 3D on the bottom of the trousers.*

#### KEY FEATURES:

- waterproof FLEXOTHANE® fabric
- chemical spray protection (tested)
- protection against liquid chemicals PB{4}
- FLEXOTHANE® 3D reinforcements

**SIZES:**  
S-3XL

**FLEXOTHANE®**

# SPECIFIC APPLICATIONS

## FOUL WEATHER & WORKWEAR

### Multi-layering concept

The concept of multi-layer signifies that multiple, interactive layers of clothing are used, each layer having its own complementary function. The advantages of multi-layering concepts are quite easy to understand. Combine several advantages of different kinds of clothing and you end up being well protected and well prepared for any kind of weather.

The main reason of its existence: It is not because it is raining now that it cannot be warm and sunny minutes later or the other way around...

## OUR MULTI-LAYERING CONCEPT CONSISTS OF 3 INDEPENDENT LAYERS THAT CAN EITHER BE USED SEPARATELY OR COMPLEMENTARY.

1

### FIRST LAYER BASE LAYER

**This layer is worn next to the skin.** The different fibres and fabrics used for these garments absorb perspiration and disperse it away from the skin. Some garments are anti-bacterial and most items have flat seams, thus preventing unpleasant irritation of the skin.

This layer creates a micro-climate close to the skin in order to keep the wearer as comfortable as possible.

2

### INTERMEDIATE LAYER THERMAL LAYER

The thermal layer is the insulation layer. Fleece fabrics are frequently used as the intermediary layer. Fleeces are very comfortable to wear and **have good insulating characteristics**, keeping the wearer warm.

3

### THIRD LAYER PROTECTION LAYER

This layer is often exposed to severe conditions. **It offers protection against harsh weather conditions such as wind, rain, hail and snow.** Dependant on the type of use our clothing is breathable, windproof and waterproof.



SIO-COOL<sup>®</sup> LIGHTSIO-COOL<sup>®</sup> LIGHT**BASE LAYER****HI-VIS T-SHIRT  
REF 397A**

spring 2013

These are no regular T-shirts. They cover pretty much every demand of a forestry- or tree worker. These demands are:

- highly visible
- as comfortable as possible

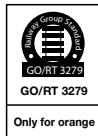
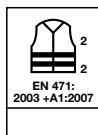
The solutions of both demands can both be found on our especially developed T-shirts. The fluorescent colors are easily discernible from the background usually being green foliage. The SIO-COOL<sup>®</sup> LIGHT fabric takes care of the comfort factor.

**KEY FEATURES:**

- perspiration anti-wicking function
- very high comfort thanks to the SIO-COOL<sup>®</sup> LIGHT fabric with incorporated nano-silver technology
- lively colors, easily distinguishable from green foliage
- quick drying
- odor absorbing

**SIZES:**

S-3XL

**BASE LAYER****HI-VIS T-SHIRT  
REF 385A**

High visibility protection conform to the European Standard **EN 471 - Class 2-2**

During warm working days transpiration is inevitable. The SIO-COOL<sup>®</sup> t-shirts with nano silver-technology make the difference between sweating with and sweating without inconvenience.

The almost permanent anti-microbial function eliminates all odors and provides maximum ventilation under the armpits by introducing a hi-vis mesh fabric.

**KEY FEATURES:**

- high visible according to EN 471
- perspiration anti-wicking function
- very high comfort thanks to the SIO-COOL<sup>®</sup> LIGHT fabric with incorporated nano-silver technology
- high-vis mesh armpit ventilation
- quick drying
- odor absorbing

**SIZES:**

S-3XL

**MICROBIAL EFFECT**

With nano size silver fragments (Ag) contained in the fibre, SIO-COOL<sup>®</sup> eliminates highly tolerant MRSA (this bacteria is responsible for difficult to treat infections in the human body).

As well it maintains freshness in garments by eliminating odour causing germs. Silver does no harm to the human body and the anti-bacterial is almost permanent.

**HI-VIS MESH FABRIC**

The 385A T-shirts has a hi-vis colored mesh fabric under the armpit. This is especially useful while working on hot days or simple while working near a road where, on a sunny day, temperatures can easily reach a few degrees higher than the surrounding air.



## THE BASE LAYER ABSORBS PERSPIRATION AND DISPERSES IT AWAY FROM THE SKIN

### SIO-COOL® FABRIC

SIO-COOL® is a concept of multi-functional yarns, which is combined with quick-drying and anti-microbial, deodorant functions. SIO-COOL® combines the softness of cotton and the cool, easy care properties of polyester to keep you fresh and cool at any time.

The excellent transport, drying and comfort characteristics of SIO-COOL® assures that perspiration does not accumulate, but quickly reaches the surface where it is released to the surrounding air, thus the skin stays dry longer.

NANO SILVER TECHNOLOGY

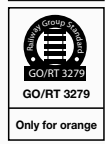
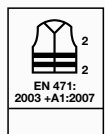




**BASE LAYER**

**HI-VIS T-SHIRT**  
**REF 2666A2MC1**

High visibility protection conform to the European Standard **EN 471 - Class 2-2**  
Solar UV protection conform to the European Standard **EN 13758-2 - UPF 50+**



*This t-shirt proves that looks can be deceiving when comparing with the previous reference.*

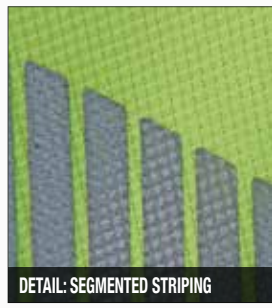
*Where the 385A stays basic this reference takes technology a few levels higher. The breathable fabric wicks perspiration away from the body, even in places with reflective striping. The reason: the retro-reflective striping is segmented. In between each segment perspiration can be expelled. Additionally the fabric is EN 13758-2 UPF 50+ certified.*

**KEY FEATURES:**

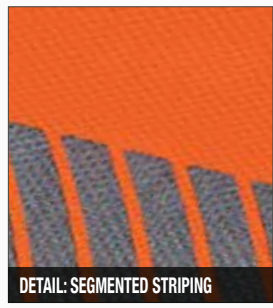
- high visible according to EN 471
- perspiration anti-wicking function
- nano-silver technology
- decreased sweating thanks to segmented retro-reflective striping
- UPF 50+ UV protection
- quick drying
- quick absorbing

**SIZES:**

S-3XL



DETAIL: SEGMENTED STRIPING



DETAIL: SEGMENTED STRIPING

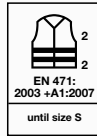


THE THERMAL LAYER  
 CREATES A MICRO-  
 CLIMATE CLOSE TO  
 THE SKIN, IN ORDER  
 TO KEEP YOU WARM,  
 DRY AND COMFORTABLE

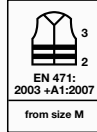


**THERMAL LAYER**

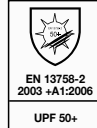
**HI-VIS PULL-OVER  
 REF 284A**



High visibility protection conform to the European Standard **EN 471 - Class 3-2** (M-2XL)  
 High visibility protection conform to the European Standard **EN 471 - Class 2-2** (XS-S)

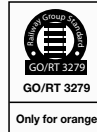


*The second element that completes the 3-layering concept, the thermal layer, suffers more from exposure to bad weather and gets into contact with dirt more often than the base layer. For that reason this jacket has a grey finish at the bottom of the arms and the top of the collar, the area most vulnerable to dirt, gasoline, oil etc.*



**KEY FEATURES:**

- high visible according to EN 471
- grey finish at the end of the sleeves
- stretchable retro-reflective striping to enhance free movement and comfort



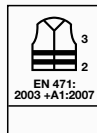
**SIZES:**

S-3XL

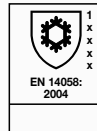


**THERMAL LAYER**

**HI-VIS SOFTSHELL  
 REF 9833**



High visibility protection conform to the European Standard **EN 471 - Class 3-2**  
 Cold protection conform to the European Standard **EN 14058 - Class 1-x-x-x-x**



*The 2-layered bonded hi-vis softshell has the same isolating properties as a fleece but offers a more comfortable sensation. This softshell offers a good protection against wind and cold, respectively because of its incorporated windbreaker, and thanks to its bonded 2-layer concept.*

**KEY FEATURES:**

- high visible according to EN 471
- lightweight
- protects against cold and wind
- sleeve narrowing system (benefit when holding a brushcutter or a chainsaw)

**SIZES:**

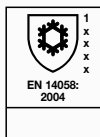
S-3XL



**THERMAL LAYER**

**FLEECE JACKET  
REF 7472**

Cold protection conform to the European Standard  
**EN 14058 - Class 1-x-x-x-x**



*The double sided fleece jacket provides an excellent cold protection whilst staying breathable at the same time.*

**KEY FEATURES:**

- anti-pilling treatment
- comfortable fit
- highly durable

**SIZES:**

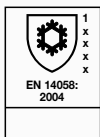
S-3XL



**THERMAL LAYER**

**FLEECE JACKET  
REF 611Z**

Cold protection conform to the European Standard  
**EN 14058 - Class 1-x-x-x-x**



*This double-sided fleece jacket offers comfortable warmth. Warmth, yet very little transpiration, thanks to the breathable properties of this fleece.*

**KEY FEATURES:**

- anti-pilling treatment
- can be zipped in ref. 608z

**SIZES:**

S-3XL



**THERMAL LAYER**

**BODYWARMER  
REF 087A**

Cold protection

*A bodywarmer keeps the area warm where we lose most of our body heat. A second but more important advantage, especially for chainsaw users, is the fact that a bodywarmer guarantees free movement of the arms.*

**KEY FEATURES:**

- large number of handy pockets
- maximum free arm movement

**SIZES:**

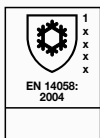
S-3XL



**THERMAL LAYER**

**SOFTSHELL  
REF 9834**

Cold protection conform to the European Standard  
**EN 14058 - Class 1-x-x-x-x**



*This multi-function and multi-layer bonded softshell protects against cold and wind. The smooth texture of the fabric gives sawdust and other dirt a hard time to get a grip.*

**KEY FEATURES:**

- sawdust will not settle
- protects against wind and cold

**SIZES:**

S-3XL







FLEXOTHANE<sup>®</sup>  
ESSENTIAL

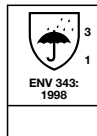


FLEXOTHANE<sup>®</sup>  
ESSENTIAL

**PROTECTION LAYER**

**RAIN JACKET  
REF 4145**

Protection against rain conform to the European Standard  
**ENV 343 - Class 3-1**



*The one-sided PU coating on an undyed knitted polyester FLEXOTHANE<sup>®</sup> ESSENTIAL offers an excellent protection against rain and wind.*

**KEY FEATURES:**

- excellent wind and rain protection
- extremely durable
- noiseless
- foldaway hood in collar

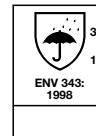
**SIZES:**

S-3XL

**PROTECTION LAYER**

**RAIN TROUSERS  
REF 6360**

Protection against rain conform to the European Standard  
**ENV 343 - Class 3-1**



*Same properties as ref. 4145.*

**KEY FEATURES:**

- excellent wind and rain protection
- extremely durable
- noiseless
- adjustable legs by press studs

**SIZES:**

S-3XL

**THE THIRD LAYER  
OFFERS PROTECTION  
AGAINST HARSH WEATHER  
CONDITIONS SUCH  
AS WIND, RAIN,  
HAIL AND SNOW**

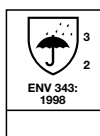
**FLEXOTHANE<sup>®</sup> FABRIC**

FLEXOTHANE<sup>®</sup> ESSENTIAL offers excellent protection against rain & wind. One sided PU coating on undyed polyester knitted base fabric.

FLEXOTHANE<sup>®</sup> CLASSIC is a revolutionary combination of high quality hydrolysis-resistant polyurethane coating on a stretchable polyamide 6.6. knitted base fabric, which is waterproof and offers excellent wind protection and resistance to cold. Due to its composition, FLEXOTHANE<sup>®</sup> CLASSIC offers extended durability against hydrolysis. Extended wear life means increased value for money.



FLEXOTHANE<sup>®</sup>  
CLASSIC



**PROTECTION LAYER**

**RAIN COVERALL  
REF 4910**

Protection against rain conform to the European Standard **ENF 343 - Class 3-2**

*This FLEXOTHANE<sup>®</sup> CLASSIC coverall provides rain protection from head to toe. Ideal for working during very rainy and windy weather*

**KEY FEATURES:**

- excellent wind and rain protection
- easy opening and closing thanks to long zip closures under the flap

**SIZES:**  
S-3XL



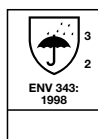
FLEXOTHANE<sup>®</sup>  
CLASSIC

**PROTECTION LAYER**

**RAIN JACKET  
REF 1SJ3**

Protection against rain conform to the European Standard **ENF 343 - Class 3-2**

*This product almost hardly needs any further introduction. The highly durable SIP<sup>®</sup> Protection rain jacket will continue to prove its duty, as it has been doing for the past decade.*



kwf

**KEY FEATURES:**

- excellent wind and rain protection
- extremely durable
- stretchable
- noiseless
- foldaway hood in collar

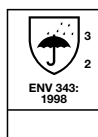
**SIZES:**  
S-2XL

**PROTECTION LAYER**

**RAIN TROUSERS  
REF 1SP4**

Protection against rain conform to the European Standard **ENF 343 - Class 3-2**

*Same properties as 1SJ3 rain jacket.*



kwf

**KEY FEATURES:**

- excellent wind and rain protection
- extremely durable
- stretchable
- noiseless
- zip at the bottom of the trousers for easy fitting over boots

**SIZES:**  
S-2XL



FLEXOTHANE<sup>®</sup>  
CLASSIC



**S.E.P.F**



**SIOPOR<sup>®</sup>**  
EXTRA

**SIOPOR<sup>®</sup>**  
REGULAR

**SIOPOR<sup>®</sup>**  
REGULAR

**PROTECTION LAYER**

**RAIN JACKET  
REF 608Z**

Protection against rain conform to the European Standard **EN 343 - Class 3-3**

*A rain jacket in which you do not melt? This extremely comfortable rain jacket provides 100% waterproofness with a very high breathability (3 on a maximum scale of 3).*



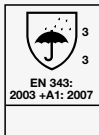
*A fleece jacket (ref. 611z) can be zipped in.  
For more info see page 94*

**KEY FEATURES:**

- breathable SIOPOR<sup>®</sup> EXTRA fabric
- 100% waterproof
- moisture attracting coating on the inside
- fleece jacket (ref 611Z) can be zipped in

**SIZES:**

XS-3XL



**PROTECTION LAYER**

**HI-VIS RAIN JACKET  
REF 198A**

High visibility protection conform to the European Standard **EN 471 - Class 3-2**  
Protection against rain conform to the European Standard **EN 343 - Class 3-3**

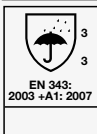
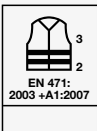
*On top of the hi-vis EN 471 class 3-2 properties this rain jacket takes comfort to the next level, thanks to its breathable properties and armpit ventilation.*

**KEY FEATURES:**

- high visible according to EN 471
- breathable
- SIOPOR<sup>®</sup> REGULAR fabric
- 100% waterproof
- armpit ventilation
- moisture absorbing coating on the inside
- fixed hood

**SIZES:**

S-3XL



**PROTECTION LAYER**

**HI-VIS RAIN TROUSERS  
REF 199A**

High visibility protection conform to the European Standard **EN 471 - Class 1-2**  
Protection against rain conform to the European Standard **EN 343 - Class 3-3**

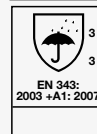
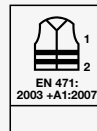
*The matching pair of trousers of the hi-vis rain jacket (ref. 198A).*

**KEY FEATURES:**

- high visible according to EN 471
- breathable SIOPOR<sup>®</sup> REGULAR fabric
- 100% waterproof
- moisture absorbing coating on the inside
- adjustable legs by press studs

**SIZES:**

S-3XL

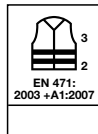




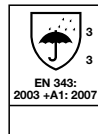
#### PROTECTION LAYER

### HI-VIS RAIN JACKET REF 209A

**SIOPOR®**  
**ULTRA**



High visibility protection conform to the European Standard **EN 471 - Class 3-2**  
Protection against rain conform to the European Standard **EN 343 - Class 3-3**



*4-in-1 multifunctional jacket with detachable bodywarmer combines several garments each with their own advantage:*

- rain jacket with breathable SIOPOR® ULTRA outer fabric
- bodywarmer detachable sleeves
- bodywarmer

#### KEY FEATURES:

- high visible according to EN 471
- bodywarmer also certified according to EN 471 class 2-2
- highly breathable SIOPOR® ULTRA fabric
- 100% waterproof
- moisture attracting coating on the inside
- high tear resistance

#### SIZES:

S-3XL

COLD PROTECTION

WATERPROOF

WINDPROOF



BREATHABLE

## SIOPOR® FABRIC

Thanks to a water repellent polyester outer fabric in combination with a moisture absorbing coating on the inside SIOPOR® keeps you perfectly warm and dry.

SIOPOR® is totally water and windproof, breathable, extremely comfortable, supple and machine washable. The high degree of breathability offers you excellent comfort, which make it pleasant to work in all weather conditions.


# HEAD-TO-TOE PROTECTION



 [starts at page 102](#)


**COMFORTABLE  
BOOTS FOR  
PROFESSIONAL USE**



 [starts at page 114](#)


**THE ONLY WAY TO  
PROTECT OUR BRAINS,  
EYES AND EARS IS BY  
WEARING ADEQUATE  
HEAD PROTECTION**



 [starts at page 108](#)

**PROTECT YOUR  
HANDS & ARMS,  
WORK WITH GLOVES  
AND CUFFS**



 [starts at page 120](#)

**SMALL THINGS CAN MAKE  
A BIG DIFFERENCE.  
ACCESSORIES  
COMPLETE YOUR OUTFIT**

# HEAD-TO-TOE PROTECTION

## FOOTWEAR

At SIP® Protection we are committed to dress a forestry worker tip-top from head to toe. This also includes boots. It is not easy to find a boot that meets all every single demand of day to day forestry and tree work, considering that each type of work has its own unique requirements.

By listing the essential features for each type of work we were able to develop the corresponding boots:

- 1) chainsaw boots need to be **extremely comfortable**:  
a whole day work mustn't come with sore feet and blisters.
- 2) the footwear must be **very hard wearing**:  
forestry environment comes with rocks, branches, ....
- 3) each type of work demands **its own specification**.

As is the case with everything that stands under the name of SIP® Protection, we do not make any compromises. To be sure we cover all the needs of each individual with at least one pair of boots they have been designed and tested by professionals.



### CHAINSAW BOOTS REF 3SD3

General standards for safety boots conform to the European Standard

**EN ISO 20345-2012: SB+P+WR+SRA**

Chainsaw protection for safety boots conform to the European Standard

**EN ISO 17249:A1:2007 - class 2**

end 2012

*If you are looking for a comfortable quality chainsaw boot, you should seriously consider these boots.*

*This newcomer in our range was developed in collaboration with professional users and modified per their comments. It combines safety, comfort, quality and a nice design. Chainsaw protection class 2 (24m/s), all around full breathable and hydrophobic leather, well considered placing of the lace hooks, lightweight and soles with great shock absorption. On top of that a steel toe cap of an anatomical shape enhances comfort even when working on your knees.*

*Needless to say, our test subjects enjoyed wearing these boots.*

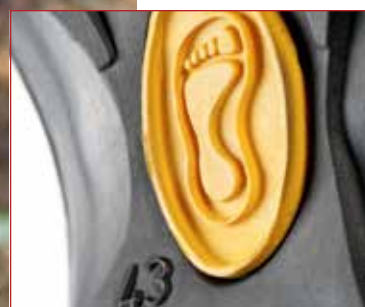
#### KEY FEATURES:

- breathable and hydrophobic leather of the inner lining
- shock absorption and lightweight = comfort
- bowl shaped sole for greater lateral protection
- large heel maximizing stability
- shock absorber in the front of the boot
- easy cleaning and ultra-strong grip thanks to multi-directional indented sole

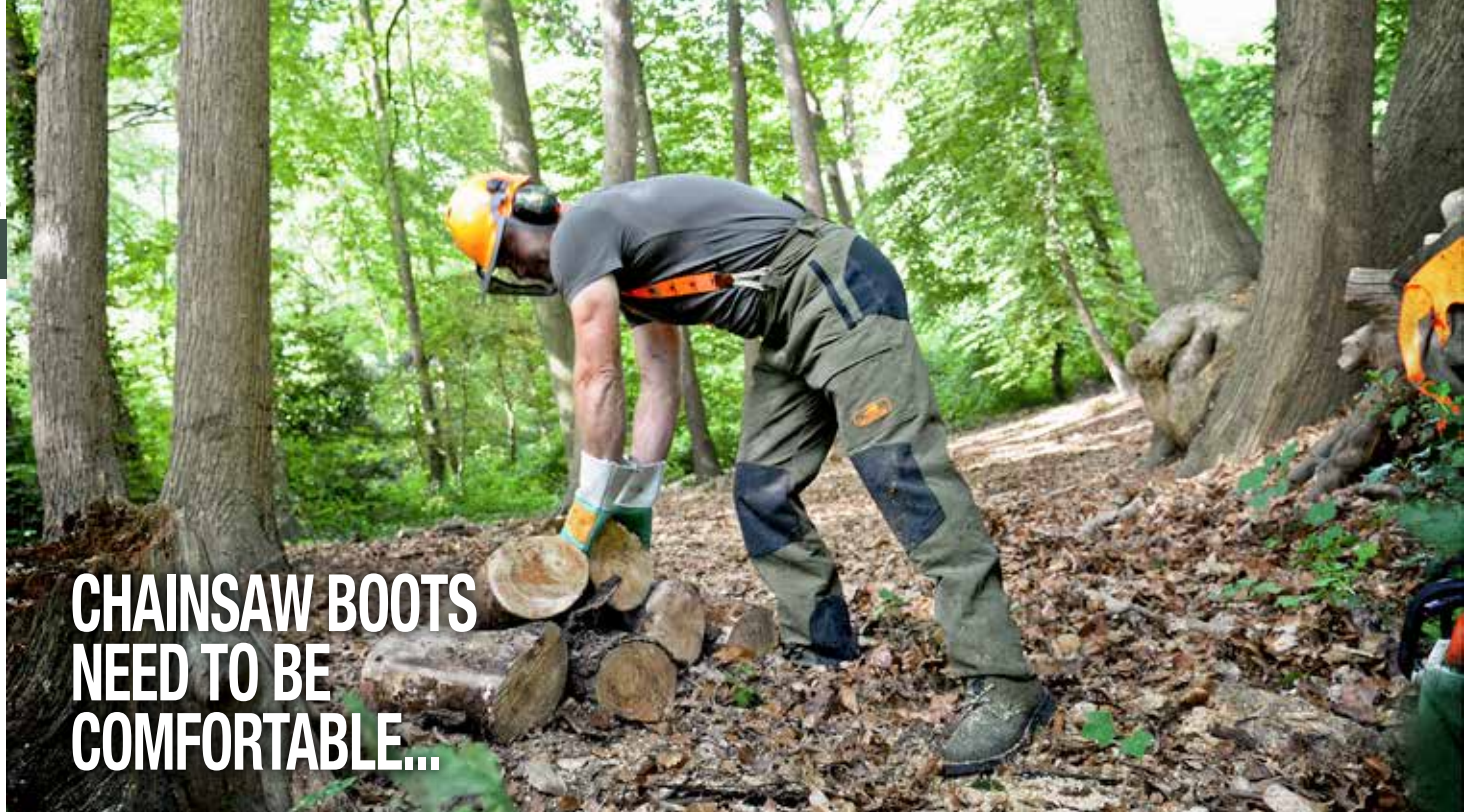


**DID YOU KNOW?**

The markings SB, S1, S2, S3 and so on are widely used, yet poorly understood. When designing a safety product it's all about determining the possible risks (risk assessment).

**TAKING CARE OF YOUR BOOTS**

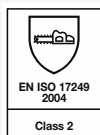
- Wear our socks. It will increase wearing comfort and optimize ventilation (see page 107).
- Clean your boots after use, using appropriate tools (light brush cloths or even used newspapers)
- Avoid using aggressive products such as acid, strong solvents and keep them dry (without placing them near a heat source)
- Periodically treat the leather with grease (see page 120).



## CHAINSAW BOOTS NEED TO BE COMFORTABLE...



### CHAINSAW BOOTS REF 3SA3



General standards for safety boots conform to the European Standard  
**EN ISO 20345-2004: SB+E+WRU+P+CI+HRO**  
Chainsaw protection for safety boots conform to the European Standard  
**EN ISO 17249:A1:2004 - class 2**

*A boot with a proven track record. This boot was designed for treeclimbing. Offering Class 2 protection and a supple mid and upper sole it combines both safety and comfort.*

*Besides that, reducing side-stitches as much as possible and using loops instead of hooks for the laces, friction and damage of your foot locking rope are avoided as much as possible.*

#### KEY FEATURES:

- supple sole
- knitted sole
- no lace hooks = no rope damage



aquastop

### CHAINSAW BOOTS REF 3SB3



General standards for safety boots conform to the European Standard  
**EN ISO 20345-2007: SB+E+A+WRU+P+HRO+FO+SRA**  
Chainsaw protection for safety boots conform to the European Standard  
**EN ISO 17249:A1:2007 - class 2**



*The 3SB3 is exactly what it looks like. Combine solid leather, a rock solid knitted outer sole (only slightly flexible), rock solid laces and steel toe cap and you end up with a very solid chainsaw boot especially designed for working circumstances demanding extreme durability.*

*The AQUASTOP membrane in the 3SB3 is a lining that assures that no water can penetrate from the outside under any given circumstance, even if submerged, for up to an hour. The leather rises 23 cm from the bottom of the inner sole up to the top of the boots.*

#### KEY FEATURES:

- AQUASTOP® membrane
- knitted sole
- rock solid construction



## AND HARD-WEARING...

### INFORMATION ABOUT MEMBRANES:

Membranes are often claimed as being the most important feature of a chainsaw boot contributing to the highest obtainable comfort.

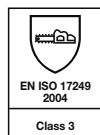
However, this depends for a considerable part on the climatological circumstances. From the moment the temperature outside the boots approaches the same temperature as the temperature inside the boots, a membrane loses much, if not all of its advantages and might ultimately result in a rather uncomfortable climate inside the boots.

A hot summers day, a sunny day with work on rocky surfaces (stones preserve and capture warmth from the sun very easily), 37 degrees Celsius isn't that far off as one might think...

Remember, everybody has different feet so determine for yourself what you need or want, and find boots that suit you.



### RUBBER CHAINSAW BOOTS REF 3SC7



Chainsaw protection for safety boots conform to the European Standard

**EN ISO 17249-2004 - class 3**

Additional protective features conform to the European Standard **EN ISO 20345-2004:**

**SB + P + abrasion resistant + waterproof + oil resistant**

*For very dirty (e.g. mud) or snowy undergrounds rubber boots are sometimes advisable.*

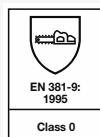
*These waterproof rubber boots rise just under the knee area, have an anti-bacterial treatment on the edge and have laces on the back for easy adjustment and proper fit.*

#### KEY FEATURES:

- waterproof construction
- anti-bacterial lining



### GAITERS REF 3SA5



Chainsaw protection for gaiters conform to the European Standard

**EN 381-9 - class 0**

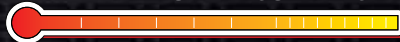
*This a step-in solution to have chainsaw protection on top of regular safety boots by tying gaiters around them. Additionally, they prevent dirt from piling up on your boots.*

#### KEY FEATURES:

- suitable for occasional use (in combination with safety boots)
- 2 sizes ranges (39-42 and 43-46)

# THERMO/COOL

TEMPERATURE REGULATING



MOISTURE MANAGEMENT

## LEG SUPPORT (1)

This elastic shaft provides extra support and stimulates the blood flow.

## FLEX FIT & AIR FLOW (2)

Air channels funnel the air around. This results in optimal ventilation!

## SHOCK ABSORPTION (3)

Increased wearing comfort!

## ARCH SUPPORT (4)

Supports the front end of the foot and prevents the sock to slide in an undesired position.

## INDICATION OF LEFT AND RIGHT (5)

Anatomically dedicated socks to each foot resulting a proper fit and even greater wearing comfort.

## HEEL & TOE PROTECTION (6)

Significantly prolonged "socklife". Reinforced fabric provides extra protection to the heel & toe area.

## MOISTURE MANAGEMENT (7)

The incorporated technology regulates the amount of moisture.





### COOL SOCKS REF 395A

Cool feet during warm summer days

*A thick, extremely strong calf length sock with superb moisture-regulating properties.*

42% cotton, 22% PRO GUARDS® polyester, 23% polyamide, 12% AMICOR® PURE (acrylic), Lycra® 1% elastane

#### KEY FEATURES:

- leg & arch support
- flex fit & air flow
- shock absorption
- moisture management

#### SIZES:

37-40 (10) - 41-44 (11) - 45-48 (12)



### THERMO SOCKS REF 396A

Warm feet during cool winter days

*A warm woollen calf length sock with superb moisture regulation.*

44% wool superwash, 29% polyamide, 17% PRO GUARDS® Polyester, 9% AMICOR® PURE (acrylic), 1% elastane

#### KEY FEATURES:

- leg & arch support
- flex fit & air flow
- shock absorption
- moisture management

#### SIZES:

37-40 (10) - 41-44 (11) - 45-48 (12)

## FOOTWEAR OVERVIEW

The table below gives an overview of the products within the range and allows you to compare each product. You will find a summary of all products with the corresponding page references on page 126.

We are happy to provide more in-depth technical information upon request.



**3SD3**  
BOOTS  
page 102

**3SB3**  
BOOTS  
page 104

**3SA3**  
BOOTS  
page 104

**3SC7**  
BOOTS  
page 105

**3SA5**  
GAITERS  
page 105

**3SA5**  
GAITERS  
page 105

### STANDARDS

EN ISO 17249	Class 1	-	-	-	-	N/A	N/A	
	Class 2	2007	2007	2004	-	N/A	N/A	
	Class 3	-	-	-	2004	N/A	N/A	
EN ISO 20345	S3	•	•	•	•	N/A	N/A	
	S2	-	•	-	-	N/A	N/A	
		-	-	•	-	-	N/A	N/A
	S1	-	•	-	-	N/A	N/A	
	SB	Basic requirements <sup>(1)</sup>	•	•	•	•	N/A	N/A
	E	Energy absorption (Heel)	-	•	•	-	N/A	N/A
	A	Anti-static features	-	•	-	-	N/A	N/A
	WRU	Water resistant upper	-	•	•	-	N/A	N/A
	P	Perforation resistance of the sole	•	•	•	•	N/A	N/A
	WR	Waterproof construction	•	-	-	- <sup>(1)</sup>	N/A	N/A
	CI	Cold insulation of the sole complex	-	-	•	-	N/A	N/A
	HI	Heat insulation of the sole complex	-	-	-	-	N/A	N/A
	HRO	Outsole resistance to heat contact	-	•	•	-	N/A	N/A
	FO	Outsole resistance to hydrocarbons	-	•	-	-	N/A	N/A
	SRC		-	-	-	-	N/A	N/A
	SRA	Slip resistance on ceramic tile floors	•	-	-	-	N/A	N/A
	SRB	Slip resistance on steel floors	-	-	-	-	N/A	N/A
EN 381-9	Class 0		-	-	-	-	•	•

### SIZES

size table	38-48	39-49	36-48	38-48	39-42 / 43-46	39-42 / 43-46
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<sup>(1)</sup> Waterproofness is a basic requirement on rubber boots. There is no symbol to indicate this.

# HEAD-TO-TOE PROTECTION

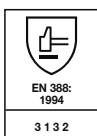
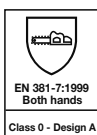
## GLOVES & CUFFS

**Blisters, tears, cuts, abrasions,...** When working outdoor and using machines such as chainsaws, brush cutters and hedge trimmers, these and similar inconveniences can easily occur when you are not wearing proper gloves.

Our gloves take quality to the next level:

- 1) All our leather gloves are treated to be water repellent and **thick flexible leather** is used to **take durability to the highest level.**
- 2) All our leather gloves are certified according to standard EN 388 for mechanical resistance with 4 values respectively standing for abrasion, cut resistance, tear strength and perforation.

The maximum score for mechanical resistance is 4 for abrasion, 5 for cut resistance, 4 for tear strength and 4 for resistance to perforation. On top of that, there are extra benefits concerning the leather i.e. the presence of hydrophobic features of the gloves and the very strong aramid stitches. All our gloves comply with the EN 420 standard for protective clothing.



### CHAINSAW GLOVES - CLASS 0 REF 2SA5 - DESIGN A

Chainsaw protection conform to the European Standard **EN 381-7 - Class 0**  
Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**  
Hand & arm protection conform to the European Standard **EN 420**

*These gloves provide chainsaw protection on both hands and are reinforced in the palm of each hand for heavy forestry tasks such as hauling or splitting wood.*

#### KEY FEATURES:

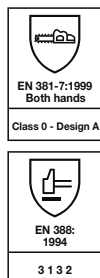
- chainsaw protection on both hands
- strong para-aramid stitching
- hydrophobic treatment
- reinforced in the palm of both hands





### CHAINSAW GLOVES - CLASS 0

#### REF 2SA4 - DESIGN A



Chainsaw protection conform to the European Standard **EN 381-7 - Class 0**  
Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**  
Hand & arm protection conform to the European Standard **EN 420**

*These gloves provide chainsaw protection on both hands and wrists.*

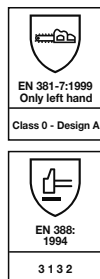
#### KEY FEATURES:

- chainsaw protection on both hands
- chainsaw protection on wrists
- strong para-aramid stitching
- hydrophobic treatment



### CHAINSAW GLOVES - CLASS 0

#### REF 2SA7 - DESIGN A



Chainsaw protection conform to the European Standard **EN 381-7 - Class 0**  
Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**  
Hand & arm protection conform to the European Standard **EN 420**

*High comfort and flexibility meets high quality and durability in these pair of chainsaw gloves providing left hand chainsaw protection.*

#### KEY FEATURES:

- chainsaw protection on the left hand
- strong para-aramid stitching
- hydrophobic treatment
- comfortable wrist tightening system



ALL OUR LEATHER GLOVES ARE TREATED TO BE WATER REPELLENT AND THICK FLEXIBLE LEATHER IS USED TO TAKE DURABILITY TO THE HIGHEST LEVEL



**CHAINSAW GLOVES - CLASS 1**



**REF 2SB5 - DESIGN A**

Chainsaw protection conform to the European Standard **EN 381-7 - Class 1**  
Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**  
Hand & arm protection conform to the European Standard **EN 420**

*Suitable for use with a handheld chainsaw providing chainsaw protection on the left hand, up until half of the lower part of the left arm.*

**KEY FEATURES:**

- chainsaw protection on the left hand up until the middle of the lower part of the left arm
- extreme protective coverage: 18 cm
- strong para-aramid stitching
- hydrophobic treatment


EN 381-7:1999 Only left hand
Class 1 - Design A

EN 388: 1994
3 1 3 2

**CHAINSAW GLOVES - CLASS 1**



**REF 2SB4 - DESIGN A**

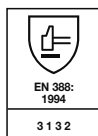
Chainsaw protection conform to the European Standard **EN 381-7 - Class 1**  
Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**  
Hand & arm protection conform to the European Standard **EN 420**

*Suitable for use with a handheld chainsaw providing chainsaw protection on both hands and up until half of the lower part of the both arms.*

**KEY FEATURES:**

- chainsaw protection on both hands up until the middle of the lower part of both arms.
- extreme protective coverage: 18 cm
- strong para-aramid stitching
- hydrophobic treatment


EN 381-7:1999 Both hands
Class 1 - Design A

EN 388: 1994
3 1 3 2



## WORKING GLOVES REF 2SA1

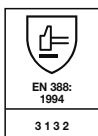
Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**

Hand & arm protection conform to the European Standard **EN 420**

*These working gloves are suitable for loading and unloading wood and occasional working with machines such as brush cutters and hedge trimmers thanks to their high-density foam pads in the palms of the hands.*

### KEY FEATURES:

- no chainsaw protection
- strong para-aramid stitching
- hydrophobic treatment



## WORKING GLOVES REF 2SA3

Protection against mechanical hazards conform to the European Standard **EN 388 - 3 1 3 2**

Hand & arm protection conform to the European Standard **EN 420**

*Suitable for loading and unloading wood and intensive brush cutting and hedge trimming activities. Thanks to the high-density foam pads in the palms.*

### KEY FEATURES:

- no chainsaw protection
- strong para-aramid stitching
- hydrophobic treatment
- vibration absorbing foam in the palm of the hand
- comfortable elasticated cuffs

## WORKING GLOVES REF 2SB0

*The polyester knitting of these gloves makes them rather suitable for basic outdoor work in dry weather conditions. The transparent coating in a net structure on top of the fabric have an anti-skid function.*

### KEY FEATURES:

- basic working gloves
- appropriate for climbing activities
- anti-skid coating



**2SA5**

GLOVES

page 108

**2SA4**

GLOVES

page 109

**2SA7**

GLOVES

page 109

**2SB4**

GLOVES

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**2SB5**

GLOVES

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**2SA1**

GLOVES

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**2SA3**

GLOVES

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**2SB0**

GLOVES

page 111

## STANDARDS

		2SA5	2SA4	2SA7	2SB4	2SB5	2SA1	2SA3	2SB0
EN 420		•	•	•	•	•	•	•	-
EN 388	Class	3-1-3-2	3-1-3-2	3-1-3-2	3-1-3-2	3-1-3-2	3-1-3-2	3-1-3-2	-
EN 381-7	Design	A	A	A	A	A	-	-	-
	Class	0	0	0	1	1	-	-	-

## FEATURES

	2SA5	2SA4	2SA7	2SB4	2SB5	2SA1	2SA3	2SB0
para-aramid stitching	•	•	•	•	•	•	•	-
hydrophobic leather	•	•	•	•	•	•	•	-
reinforcement in the palm	•	-	-	-	-	-	-	-
chainsaw protection	•	•	•	•	•	-	-	-
on top of both hands	•	•	-	•	-	-	-	-
only on the left hand	-	-	•	-	•	-	-	-
on the wrist	-	•	-	•	•	-	-	-
arteries covering cuff	•	•	•	•	•	-	•	-
anti-vibration foam	-	-	-	-	-	-	•	-

## SIZES

size table see page 130

8-12 | 8-12 | 9-10 | 8-12 | 8-12 | 8-12 | 7-12 | UNI

**CUFFS  
REF 1SX1**

*These cuffs are to be worn on the lower arm and provide 360° protective material all around the arm.*

**KEY FEATURES:**

- CE - P.P.E. Category I
- 360° protective material around the arm
- elastic right under the elbow and wrist



**CUFFS  
REF 1SXA**

*The 1SXA takes the definition of cuffs a step further in terms of comfort and level of protection. It contains protective material up until the lower part of the biceps (al by assuring free arm movement of the elbow) and provides coverage on the top of the hand. It all stays in place because of an anti-slip elastic on the arm and a thumb-pass.*

**KEY FEATURES:**

- CE - P.P.E. Category I
- 360° protection from right over the elbow down to the top of the hand
- protection on top of the hand
- thumb pass (ideally worn in combination with gloves)



**1SX1**  
MANCHETTE  
page 112

**1SX1**  
MANCHETTE  
page 112

**1SXA**  
MANCHETTE  
page 112

**CARACTÉRISTIQUES**

360° protective material	•	•	•
water repellent	•	•	•
chainsaw protection	•	•	•
on top of both hands	-	-	•
higher than the elbow	-	-	•
thumb pass	-	-	•

**SIZES**

size table see page 130

UNI | UNI | UNI



**DETAIL: NON-SLIP ELASTIC**



**DETAIL: THUMB PASS OF THE 1SXA**





**CUFFS PROVIDE  
360° PROTECTIVE  
MATERIAL AROUND  
THE ARMS**



# HEAD-TO-TOE PROTECTION

## HEAD PROTECTION

The brain is by far the most complex and one of the most important organs in our body. At the same time it is very vulnerable, with the skull being the only part of the body protecting it. Even a minor impact on the skull can have serious consequences. **The best way to protect this vital organ is by wearing proper head protection.**

- 1) Helmets provide adequate protection against most hazards occurring during any given type of work. **Adequate head protection is a necessity!**
- 2) Ears are one of those organs that, once damaged, can never be repaired. Deafness is permanent and has enormous social consequences. Other effects due to high noise levels are increased blood pressure, fatigue, loss of concentration. **Ear protection is a necessity!**
- 3) **Don't forget the eyes:** a grain of sand in your eyes can be very annoying. Imagine how annoying a projected piece of dirt can be. That's why visors and glasses are recommended.



### FORESTRY HELMET REF 4SB8

Specification for industrial safety helmets to the European Standard **EN 397**

*The FPA certified forestry helmet combines strength, thanks to its UV resistance and ABS and comfort thanks to the ventilation holes and its lightweight.*

*For full head protection (head /eyes/ear) the references 1SY8, 4SB2, 4SB9 and 4SC1 can be fitted on this helmet.*

#### KEY FEATURES:

- can be extended with ref. 1SY8, 4SB2, 4SB9 and 4SC1
- UV resistant
- FPA certified
- ABS (is used to keep the shape of the helmet)
- ventilation holes

**PELTOR™**

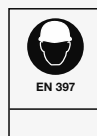
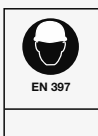
### FORESTRY & TREECLIMBING HELMET REF 4SB7

Specification for industrial safety helmets to the European Standard **EN 397**

*This helmet combines strength with a chin strap to prevent it from falling when bending over. A lot of body heat is expelled from your head. The ventilation holes in these helmets expel any access heat piled up inside the helmet..*

#### KEY FEATURES:

- can be extended with ref. 1SY8, 4SB2, 4SB9 and 4SC1
- inner harness with 4 anchor points
- chin strap
- ABS (is used to keep the shape of the helmet)
- ventilation holes



**DID YOU KNOW ?**

TBI or Traumatic Brain Injury occurs every few seconds on the planet and in a lot of cases this is linked to a lack of proper head protection.

Adequate head protection is a necessity!

**BOTH HELMETS CAN  
BE EXTENDED WITH  
DIFFERENT PRODUCTS  
TO INCREASE THE  
PROTECTION LEVEL**



DETAIL: EAR DEFENDERS - REF. 4SC7



DETAIL: NECK PROTECTION - REF. 1SV8



DETAIL: BRUSH CUTTER SET - REF. 4SC8



## ADEQUATE HEARING PROTECTION IS A MUST



### EAR DEFENDERS REF 4SB9



EN 352-3

Hearing protectors - ear muffs attached to a safety helmet cfr. to the European Standard **EN 352-3**

*These slim ear defenders, adjustable in height and rust-resistant, provide hearing protection up to 26 db SNR (H: 32db, M: 23db and L: 15db). They can be mounted on helmets ref. 4SB8 and ref. 4SB7.*

#### KEY FEATURES:

- can be mounted ref. 4SB8 and ref. 4SB7
- 26 db SNR hearing protection
- slim and comfortable fit around the ear
- adjustable in height

**PELTOR™**



### EAR DEFENDERS REF 4SC1



EN 352-3

Hearing protectors - ear muffs attached to a safety helmet cfr. to the European Standard **EN 352-3**

*These ear defenders, adjustable in height and rust-resistant, provide hearing protection up to 30 db SNR (H: 34db, M: 28db and L: 19 db). They can be mounted on helmets ref. 4SB8 and ref. 4SB7.*

#### KEY FEATURES:

- can be mounted ref. 4SB8 and ref. 4SB7
- 30 db SNR hearing protection
- comfortable fit around the ear
- adjustable in height

**PELTOR™**



### EAR DEFENDERS REF 4SC7



EN 352-1

Hearing protectors - ear plugs cfr. the European Standard **EN 352-1**

*These basic ear defenders provide hearing protection up to 23db SNR.*

#### KEY FEATURES:

- 23db SNR hearing protection

*The items above can be combined with helmets (Ref. 4SB8 and Ref. 4SB7) on page 114.*



### NECK PROTECTOR REF 1SY8

*Water running down your neck or bugs falling down your neck while working... We all know how uncomfortable this can be. This waterproof PVC is the solution to both of these inconveniences.*

#### KEY FEATURES:

- can be mounted on ref. 4SB8
- waterproof PVC
- (helmet ref. 4SB8 or 4SB7 not included)

## THE DETERMINATION OF THE RIGHT PROTECTION LEVEL

In order to determine the right level of protection consider the 2 explanations about SNR and NRR tables below:  
NRR or Noise Reduction Rating: it is an attempt to summarize a hearing protector's performance in a simple manner, by processing all the test data in accordance with an established formula.

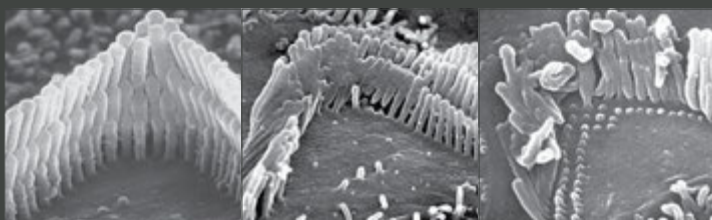
3 different protection levels are distinguished:

- **H:** high frequency
- **M:** Medium frequency
- **L:** Low frequency

SNR or Single Number Rating, used for our hearing protectors:

It is a European version of the U.S. NRR.

The SNR value is expressed in 1 single number.



HEALTHY  
STEREOCILIA

MODERATELY DAMAGED  
STEREOCILIA

SEVERELY DAMAGED  
STEREOCILIA

### DID YOU KNOW?

Ears are one of these organs that once damaged are beyond repair? Deafness is permanent and has huge social consequences. Other effects due to high noise levels: increased blood pressure, fatigue, loss of concentration. The loss in concentration is inevitably linked to increased hazards because of working less safe. Deafness is a consequence of damaged stereocilia in the ears. (see pictures above)

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### METAL VISOR REF 4SB2

Mesh type eye and face protectors cfr. the European Standard **EN 1731**

*This metal visor provides facial protection against projections caused by a chainsaw or a brush cutter.*

*They can be mounted on helmets ref. 4SB8 and ref. 4SB7. Suitable for use with ear defenders ref. 4SB9 and ref. 4SC1.*

#### KEY FEATURES:

- can be mounted ref. 4SB8 and ref. 4SB7
- suitable with ref. 4SB9 and ref. 4SC1
- facial protection
- 30 cm wide and 15 cm high

**PELTOR™**

*The items above can be combined with helmets (Ref. 4SB8 and Ref. 4SB7) on page 114.*



# WE OFFER DIFFERENT COMPLETE SETS TO SUIT YOUR BRUSHCUTTING ACTIVITIES



## FORESTRY & BRUSH CUTTER SET REF 4SC8



Specification for industrial safety helmets cfr. the European Standard **EN 397**  
Hearing protectors - Ear plugs cfr. the European Standard **EN 352-3**  
Mesh type eye and face protectors cfr. the European Standard **EN 1731**

*This basic and lightweight polyethylene helmet is the solution if in the need of hearing-, facial- and head protection all at once. The metal visor of 30 cm wide and 16 cm high provides adequate facial protection, the ear defenders of 25,9 db SNR (H: 29,3db, M: 23,8db and L: 15,5db). provide adequate hearing protection and the helmet provides head protection.*

### KEY FEATURES:

- all-in-one head, ear and face protection
- 25,9 db SNR hearing protection
- 4 anchor points
- metal visor (30 cm wide, 16 cm high)



## BRUSH CUTTER SET REF 4SA5



Hearing protectors - Ear plugs cfr. the European Standard **EN 352-2**  
Mesh type eye and face protectors cfr. the European Standard **EN 1731**

*This complete high-quality brush cutter set provides hearing protection up to 27 db SNR (H: 32db, M: 25db and L: 15db). Comfort and safety is assured thanks to its extremely low weight and its metal visor.*

### KEY FEATURES:

- comfortable brush cutting protection
- 27db SNR hearing protection
- lightweight
- metal visor (30 cm wide, 15 cm high)



## BRUSH CUTTER SET REF 4SC6



Hearing protectors - Ear plugs cfr. the European Standard **EN 352-1**  
Mesh type eye and face protectors cfr. the European Standard **EN 1731**

*This complete basic brush cutter set provides hearing protection up to 25,5 db SNR (H: 30,8db, M: 22,5db and L: 14,8db). Comfort and safety is assured thanks to its low weight and its metal visor.*

### KEY FEATURES:

- comfortable brush cutting protection
- 25,5 db SNR hearing protection
- lightweight
- metal visor (30 cm wide, 20 cm high)

**PELTOR™**



EN 166:

### HALF MASK RESPIRATOR REF 4SC9

Specifications for personal eye protection  
cfr. the European Standard **EN 166**  
Specifications for respiratory protective devices  
cfr. the European Standard **EN 141**  
Specifications for respiratory protective devices  
cfr. the European Standard **EN 140**

*In combination with the spray suits, this half mask respirator renders your work as safely as possible while handling or spraying chemical products.*

*It is extremely lightweight yet subtracts none of the toughness or performance. The unit's patented MULTI-FLEX® System equalizes pressure on the facial area, ensuring the respirator doesn't collapse during wear. The respirator also has the ANTHRO-CURVE™ sealing surface, which instantly conforms to the wearer's face. This is the only way to handle and spray chemicals as safely as possible and as comfortably as possible.*

#### KEY FEATURES:

- lightweight
- thermoplastic rubber increases softness and decreases weight
- MULTI-FLEX® SYSTEM equalizes facial pressure
- ANTHRO-CURVE™ conforms to each user's face

**MSA**  
The Safety Company



EN 166:

### TREE CLIMBER GLASSES REF 4SB6

Specifications for personal eye protection  
cfr. the European Standard **EN 166**  
Specifications for personal eye protection  
with ultraviolet filters. cfr.  
the European Standard **EN 170**



EN 170:

*These UV absorbent (99,5% at 370 nm) and light transmissive glasses (95%) made out of polycarbonate protect your eyes against the sun and provide some shelter against minor impacts of falling twigs.*

#### KEY FEATURES:

- UV absorbent
- lightweight



EN 166:

### TREE CLIMBER GLASSES REF 4SA6

Specifications for personal eye protection  
cfr. the European Standard **EN 166**

*These glasses with adjustable sides provide shelter from projections of sawdust from the chainsaw and minor impacts of falling twigs.*

#### KEY FEATURES:

- adjustable sides

# HEAD-TO-TOE PROTECTION

## ACCESSORIES

**BRACES WITH CLIPS**  
**REF 5SA5**



**BRACES WITH LOOPS**  
**REF 5SA6**



**DRINKING BOTTLE**  
**REF 5SB1**



**BOOTS GREASE**  
**REF 5SB2**



**BELT**  
**REF 5SA7**



**HAEMOSTATIC GRANULATES**  
**REF 5SA9**



**CELOX™ SAVES LIVES.  
IT CAN STOP EVEN  
POTENTIALLY LETHAL  
BLEEDING FAST**



**CELOX™**

**CELOX (REF. 5SA9) HAS PROVED IT CAN SAVE LIVES**  
WHEN MIXED WITH BLOOD, CELOX™ FORMS  
A ROBUST GEL LIKE CLOT IN 30 SECONDS.

*CELOX™ can stop even potentially lethal bleeding fast. It is easy to use (just pour, pack and apply pressure), very safe (tested to class 3 CE Mark standards) and extremely effective. CELOX™ saves lives.*

**Is suitable for?** All moderate to severe bleeding wounds (Arterial and venous bleeding, Surface and deep wounds, Head and neck face wounds)

*It works independently of the bodies normal clotting processes. CELOX's™ clotting ability has been proven to work in the cold (hypothermia) or in the presence of common anti-coagulants such as warfarin. It generates no heat and will not burn the casualty or care giver. In clinical tests by the US marines, CELOX™ was the only product to give 100% survival. It gave a strong stable MAP (mean arterial blood pressure) and was also the only product to give robust clotting with no rebleeding.*

# EUROPEAN STANDARDS

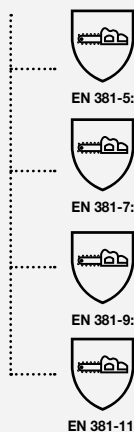
All SIP® Protection products meet the EC stipulations and are certified and marked as doing so. The CE mark indicates the compliance with the fundamental health and safety requirements from the **European Directive 89/686**.

The pictograms which you can find on the inside of your protective clothing, reflect the different levels of protective requirements which have been set in the framework of the European standards. The higher the value for a parameter, the higher the level of protection.

Constant quality control and our personal care for your safety, guarantees that all SIP® Protection products are high performance. Unless indicated otherwise, all test have - within the frame of the norm - been carried out after 5 washes at 60°C and line dried 5 times.



EN 381



## EN 381

### PROTECTION AGAINST HAND-HELD CHAINSAWS

The European standard EN 381 complies with protective clothing for chainsaw users. This norm is divided into different parts (or designs).

#### Each part treats a specific part of the body:

- *EN 381-5*: Requirements for leg protectors
- *EN 381-7*: Requirements for chainsaw protective gloves
- *EN 381-9*: Requirements for chainsaw protective gaiters
- *EN 381-11*: Requirements for upper part of the body

The norm also prescribes 4 classes that correspond to the chain speed with which the tests have been done:

- *Class 0*: 16 m/s
- *Class 1*: 20 m/s
- *Class 2*: 24 m/s
- *Class 3*: 28 m/s

Not all classes are authorized in each part of the norm. (see further for details)

## CLASSIFICATION OF PROTECTIVE CLOTHING BY CATEGORY

<i>Category I</i>	Declaration of conformity	Working clothing to protect against superficial cuts caused by machines, rain wear.
<i>Category II</i>	EC- type test <sup>(*)</sup> + declaration of conformity	Protective clothing and gloves to protect against cuts, safety glasses, helmets and face shields, fluorescent clothing, safety boots.
<i>Category III</i>	EC- type test <sup>(*)</sup> + declaration of conformity + ISO control of production by notified body or sampling and testing by notified body	Protective wear, glasses, helmets against heat over (100°C) and against cold (-50°C), against electric shocks. Protect against falling from great heights.

### EC- TYPE TEST: CE MARK



The CE mark indicates the compliance with the fundamental health and safety requirements from the European Directive 89/686. All SIP® Protection products meet the EC stipulations and are certified and marked as doing so.

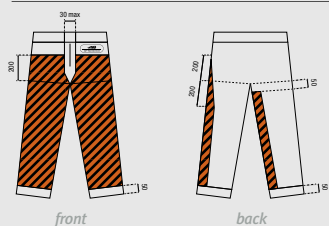


EN 381-5:

## EN 381-5: LEG PROTECTORS PROTECTION AGAINST HAND-HELD CHAINSAWS

This part specifies the demands for leg protection wear and defines three types (or designs) of leg protection wear, according to the kind of protection:

### TYPE A

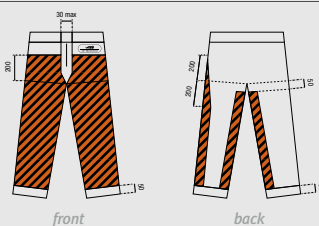


*The chainsaw protective clothing of type A and type B are mainly intended to be used for forestry work by professional lumber jacks who have been trained and informed.<sup>(\*)</sup>*

Type A (or front protection) covers each leg partly (180°) and 5 cm to the interior part of the right leg and 5 cm the exterior part of the left leg.

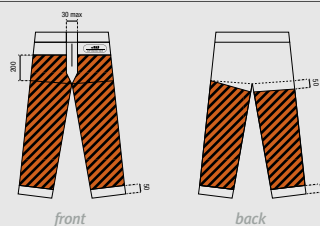
Protection starts at max. 5 cm from the bottom of the leg and ends at min. 20 cm above the crotch.

### TYPE B



Type B is identical to type A but has an extra 5 cm of protection to the interior part of the left leg.

### TYPE C



*The chainsaw protective clothing of type C are intended to be used by people who normally don't work with chainsaws or in exceptional situations.*

Type C covers each leg all around (360°) protection. The protection starts at max. 5 cm from the bottom of the leg and ends at min. 20 cm above the front of side of the crotch and at min. 50 cm under the back side of the crotch.

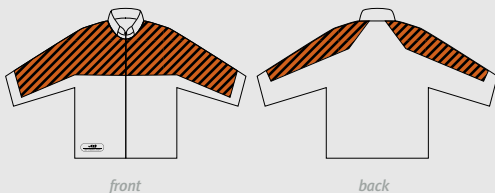
*(\*) For types A and B the protection must be fixed permanently on the sides of the protective padding. The fixing of the protection must resist a force of min. 200N. Class 0 (16 m/s) is not applicable to the EN 381-5 standard.*



EN 381-11:

## EN 381-11: PROTECTIVE UPPER PART OF THE BODY PROTECTION AGAINST HAND-HELD CHAINSAWS

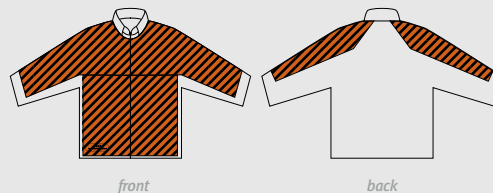
### STANDARD



The 2 images above depict the design of a chainsaw protective jacket according to standard EN 381-11.

In contrast to chainsaw trousers where 3 designs are possible there is just 1 design for the conception of chainsaw jackets in order to be conform to the standard. On both front and backside of the jacket the standard defines a minimum surface of protective inlay on the shoulders, arms and chest. On the front side of the sleeves the protective inlay must cover a minimum of 80% of the total surface and the non-protected surface from the end of the sleeves mustn't exceed 70 mm.

### STANDARD + BELLY PROTECTION



The 2 images above depict the design of a chainsaw protective jacket according to standard EN 381-11 + additional full front protection.

Chainsaw jackets are more and more used for working on servicing platforms, occasional use of the chainsaw or in exceptional and dangerous working circumstances. As a consequence, 3 jackets (1SI7, 1SIA and 1SIS) in this catalogue have additional belly protection on top of the standard in order to provide even more safety. Basically, conception is the same as a normal standard jacket but there is added protection of the abdomen (see picture).



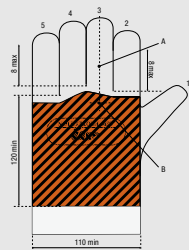
EN 381-7:

## EN 381-7: PROTECTIVE GLOVES

### PROTECTION AGAINST HAND-HELD CHAINSAWS

This part specifies the demands for chainsaw protective gloves. It describes 2 designs: design A & design B.

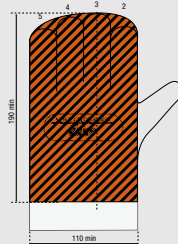
#### DESIGN A



DESIGN A

Standard EN 381-7 design A for gloves describes a protection surface on the back of the hand. The protective surface must be minimum 110 mm wide and minimum 120 mm high at the highest point (without the fingers).

#### DESIGN B



DESIGN B

Standard EN 381-7 design B for gloves describes a protection on the back of the hand and 4 fingers. The protective surface must be minimum 110 mm wide and minimum 190 mm high from the base to the highest point

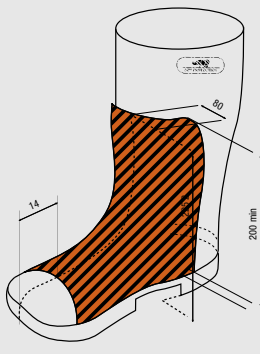


EN 381-9:

## EN 381-9: PROTECTIVE GAITERS

### PROTECTION AGAINST HAND-HELD CHAINSAWS

To be worn on top of safety boots certified EN ISO 20345.



To be worn on top of safety boots certified EN ISO 20345. Because safety boots have a steel nose there may be a gap in the chainsaw protective covering surface but it mustn't exceed more than 14 mm from the front end of the boot. The minimum height must be 200 mm and distance gaiter-ground maximum 25 mm.



EN ISO 17249

## EN ISO 17249: CHAINSAW PROTECTIVE BOOTS

### PROTECTION AGAINST HAND-HELD CHAINSAWS

A chainsaw boot is always a safety boot in the first place. A boot complying to EN ISO 17249 automatically complies to EN ISO 20345. Therefore a chainsaw boot does not have to be labelled EN ISO 20345.



EN 510:

## EN 510

### PROTECTION AGAINST MOVING PARTS

Specification for protective clothing for use where there is a risk of entanglement with moving parts.



EN(V) 342:

## EN(V) 342 PROTECTION AGAINST COLD

This standard determines the requirements for P.P.E. (Personal Protective Equipment) to be worn at temperatures under -5°C.

The following parameters are used:

- x: resulting thermal insulation measured with underwear of type B (see label)
- y: air permeability (3 levels)
- z: water vapour permeability (3 levels)



EN 14058:



EN 343:

## EN(V) 343 PROTECTION AGAINST FOUL WEATHER CONDITIONS

This European standard concerns protective clothing against rain, wind and cold at temperatures higher than -5°C. The standard provides for 2 performance parameters:

x: waterproofness - resistance of water penetration (3 levels)

	CLASS 1	CLASS 2	CLASS 3
Before pretreatment	≥ 800 mm	-	-
Before pretreatment & seams	≥ 800 mm	≥ 800 mm	≥ 1300 mm
After each pretreatment	-	≥ 800 mm	≥ 1300 mm

<sup>(\*)</sup> pretreatments: washing and/or dry cleaning, abrasion, the influence of fuel and oil, flexing.

y: breathing properties (3 levels)

	CLASS 1	CLASS 2	CLASS 3
Water vapour resistance	Ret > 150	20 < Ret ≤ 150	Ret ≤ 20

<sup>(\*)</sup> Ret: resistance value (unit m<sup>2</sup>.Pa/M), which is measured by the skin - modeltest ISO 11092.



EN 471:

## EN 471 PROFESSIONAL HIGH VISIBILITY CLOTHING

x: Surface of fluorescent and retro-reflective material (3 levels)

	CLASS 1	CLASS 2	CLASS 3
Fluorescent background material	0,14	0,50	0,80
Retro-reflective material	0,10	0,13	0,20
Or combined performance material	0,20	-	-

y: Quality of the retro-reflective material (2 levels)

There are 2 performance classes for retro-reflective material.  
(Furthermore, there are also combined performance materials  
(simultaneously fluorescent and retro-reflective).)



EN 388:

## EN 388 PROTECTION AGAINST MECHANICAL HAZARDS

This standard applies to all types of gloves that provide protection against physical and mechanical hazards due to abrasion, cuts, puncture and tearing.

# ORDERTABEL PRODUCT OVERVIEW

## TRADITION RANGE

<b>1SC1</b>	CHAINSAW COVERALL	503	spruce green/hi-vis orange	XS-3XL	page 15
<b>1SG2</b>	CHAINSAW BIB & BRACE	503	spruce green/hi-vis orange	XS-4XL	page 14
<b>1SG3</b>	TALL FIT CHAINSAW BIB & BRACE	503	spruce green/hi-vis orange	S-4XL	page 14
<b>1SG6</b>	CHAINSAW BIB & BRACE	503	spruce green/hi-vis orange	XS-4XL	page 14
<b>1SG9</b>	HI-VIS CHAINSAW BIB & BRACE	FC1	hi-vis orange	S-3XL	page 21
<b>1SG9</b>	HI-VIS CHAINSAW BIB & BRACE	FY1	hi-vis yellow	S-3XL	page 21
<b>1S11</b>	CHAINSAW JACKET	503	spruce green/hi-vis orange	XS-4XL	page 18
<b>1S19</b>	HI-VIS CHAINSAW JACKET	FC1	hi-vis orange	S-3XL	page 20
<b>1S19</b>	HI-VIS CHAINSAW JACKET	FY1	hi-vis yellow	S-3XL	page 20
<b>1SJ1</b>	CHAINSAW JACKET	503	spruce green/hi-vis orange	XS-4XL	page 19
<b>1SJ4</b>	WORKING JACKET	503	spruce green/hi-vis orange	XS-3XL	page 19
<b>1SJ9</b>	HI-VIS CHAINSAW JACKET	FC1	hi-vis orange	S-3XL	page 20
<b>1SJ9</b>	CHAINSAW JACKET	FY1	hi-vis yellow	S-3XL	page 20
<b>1SP2</b>	CHAINSAW TROUSERS	503	spruce green/hi-vis orange	XS-4XL	page 10
<b>1SP3</b>	TALL FIT CHAINSAW TROUSERS	503	spruce green/hi-vis orange	S-3XL	page 11
<b>1SP6</b>	CHAINSAW TROUSERS	503	spruce green/hi-vis orange	XS-3XL	page 11
<b>1SP9</b>	CHAINSAW HI-VIS TROUSERS	FC1	hi-vis orange	XS-3XL	page 21
<b>1SP9</b>	CHAINSAW HI-VIS TROUSERS	FY1	hi-vis yellow	XS-3XL	page 21
<b>1SPI</b>	CHAINSAW TROUSERS	503	spruce green/hi-vis orange	S-3XL	page 12
<b>1SPQ</b>	CHAINSAW TROUSERS	503	spruce green/hi-vis orange	XS-3XL	page 11
<b>1SQX</b>	CHAINSAW TROUSERS	506	spruce green/hi-vis orange	S-3XL	page 13
<b>1SR6</b>	TALL FIT CHAINSAW TROUSERS	503	spruce green/hi-vis orange	S-3XL	page 11
<b>1ST2</b>	CHAINSAW LEGGING	503	spruce green/hi-vis orange	uni.	page 17
<b>1ST3</b>	CHAINSAW LEGGING	503	spruce green/hi-vis orange	uni.	page 17
<b>1ST6</b>	CHAINSAW LEGGING	503	spruce green/hi-vis orange	uni.	page 17
<b>1ST9</b>	HI-VIS CHAINSAW LEGGING	FC1	hi-vis orange	uni.	page 21
<b>1ST9</b>	HI-VIS CHAINSAW LEGGING	FY1	hi-vis yellow	uni.	page 21
<b>1SX3</b>	EXTENSION	503	spruce green	uni.	page 17

## INNOVATION RANGE

<b>1SG7</b>	CHAINSAW BIB & BRACE	526	bottle green/hi-vis orange	XS-4XL	page 35
<b>1SHN</b>	CHAINSAW BIB & BRACE	716	spruce green/hi-vis yellow	S-3XL	page 36
<b>1S15</b>	CHAINSAW JACKET	526	bottle green/hi-vis orange	XS-3XL	page 35
<b>1S1V</b>	CHAINSAW JACKET	939	grey/red	XS-3XL	page 32
<b>1SJ5</b>	CHAINSAW JACKET	526	bottle green/hi-vis orange	XS-3XL	page 35
<b>1SJ6</b>	CHAINSAW JACKET	526	bottle green/hi-vis orange	S-3XL	page 35
<b>1SJN</b>	CHAINSAW JACKET	716	spruce green/hi-vis yellow	S-3XL	page 36
<b>1SKN</b>	WORKING JACKET	716	spruce green/hi-vis yellow	S-2XL	page 36
<b>1SKV</b>	WORKING JACKET	939	grey/red	XS-3XL	page 32
<b>1SP7</b>	CHAINSAW TROUSERS	526	bottle green/hi-vis orange	S-3XL	page 35
<b>1SPV</b>	CHAINSAW TROUSERS	835	red	S-3XL	page 31
<b>1SPV</b>	CHAINSAW TROUSERS	939	grey	S-3XL	page 31
<b>1SQN</b>	CHAINSAW TROUSERS	716	spruce green/hi-vis yellow	S-3XL	page 36

## SIP 6.1 RANGE

<b>1SCQ</b>	CHAINSAW COVERALL	494	red/hi-vis yellow	XS-3XL	page 46
<b>1SI7</b>	CHAINSAW JACKET	684	black/hi-vis yellow	S-3XL	page 44
<b>1SJ7</b>	WORKING JACKET	494	red/hi-vis yellow	XS-3XL	page 47
<b>1SK7</b>	WORKING JACKET	684	black/hi-vis yellow	S-2XL	page 44
<b>1SPU</b>	CHAINSAW TROUSERS	835	grey/hi-vis yellow	XS-3XL	page 43
<b>1SQ1</b>	CHAINSAW TROUSERS	517	bottle green/orange	2XS-3XL	page 47
<b>1SQ1</b>	CHAINSAW TROUSERS	494	red/hi-vis yellow	2XS-3XL	page 47
<b>1SQA</b>	CHAINSAW TROUSERS	684	black/hi-vis yellow	XS-3XL	page 42
<b>1SQB</b>	TALL FIT CHAINSAW TROUSERS	684	black/hi-vis yellow	XS-3XL	page 42
<b>1SR5</b>	TALL FIT CHAINSAW TROUSERS	494	red/hi-vis yellow	2XS-3XL	page 47
<b>1SSK</b>	CLIMBING TROUSERS	494	red/hi-vis yellow	XS-3XL	page 46

## PROGRESS RANGE

<b>1SIA</b>	CHAINSAW JACKET	908	grey/hi-vis orange	XS-3XL	page 65
<b>1SIA</b>	CHAINSAW JACKET	907	red/hi-vis yellow	XS-3XL	page 65
<b>1SIS</b>	HI-VIS CHAINSAW JACKET	908	grey/hi-vis orange	S-2XL	page 65
<b>1SKA</b>	WORKING JACKET	908	grey/black	XS-3XL	page 68
<b>1SKA</b>	WORKING JACKET	930	olive green/black	XS-3XL	page 68
<b>1SKA</b>	WORKING JACKET	907	red/black	XS-3XL	page 68
<b>1SKP</b>	WORKING JACKET	832	grey/hi-vis orange	S-3XL	page 68
<b>1SKP</b>	WORKING JACKET	831	olive green/hi-vis orange	S-3XL	page 68
<b>1SKP</b>	WORKING JACKET	830	red/hi-vis yellow	S-3XL	page 68
<b>1SLH</b>	LINING + FALL ARREST HARNESS	N05	black	XS-3XL	page 67
<b>1SNA</b>	CHAINSAW TROUSERS	835	grey/black	XS-3XL	page 56
<b>1SNA</b>	CHAINSAW TROUSERS	833	red/black	XS-3XL	page 56
<b>1SNB</b>	TALL FIT CHAINSAW TROUSERS	835	grey/black	S-2XL	page 56
<b>1SNR</b>	CHAINSAW TROUSERS	832	grey/orange	XS-3XL	page 59
<b>1SNR</b>	CHAINSAW TROUSERS	830	red/black	XS-3XL	page 59
<b>1SNS</b>	HI-VIS CHAINSAW TROUSERS	183	hi-vis orange	XS-3XL	page 60
<b>1SNX</b>	CHAINSAW TROUSERS	832	grey/black	XS-3XL	page 62
<b>1SNX</b>	CHAINSAW TROUSERS	830	red/black	XS-3XL	page 62
<b>1SQP</b>	CHAINSAW TROUSERS	835	grey/black	XS-3XL	page 55
<b>1SQP</b>	CHAINSAW TROUSERS	834	olive green/black	XS-3XL	page 55
<b>1SQP</b>	CHAINSAW TROUSERS	833	red/black	XS-3XL	page 55
<b>1SQT</b>	CHAINSAW TROUSERS	833	red/black	XS-3XL	page 61
<b>1SSP</b>	CLIMBING TROUSERS	835	grey/black	XS-3XL	page 71
<b>1SSP</b>	CLIMBING TROUSERS	834	olive green/black	XS-3XL	page 71
<b>1SSP</b>	CLIMBING TROUSERS	833	red/black	XS-3XL	page 71

## SPECIFIC APPLICATIONS

### INTERVENTION

<b>1SCG</b>	RESCUE COVERALL	894	red/black	S-2XL	page 80
<b>1ST4</b>	CHAINSAW LEGGINGS	509	olive green/hi-vis orange	uni.	page 78
<b>1SU8</b>	HI-VIS HAINSAW LEGGINGS	815	hi-vis red/navy	uni.	page 79
<b>1SX8</b>	EXTENSION	058	navy/red	uni.	page 78

### BRUSH CUTTING

<b>1SQ4</b>	BRUSH CUTTING TROUSERS	509	olive green/hi-vis orange	XS-3XL	page 82
<b>1SQ5</b>	HI-VIS BRUSH CUTTING TROUSERS	511	hi-vis yellow/navy	XS-3XL	page 82
<b>1SQ5</b>	HI-VIS BRUSH CUTTING TROUSERS	510	hi-vis orange/green	XS-3XL	page 82
<b>1SQ8</b>	BRUSH CUTTING TROUSERS	815	bottle green/orange	uni.	page 82
<b>1ST8</b>	BRUSH CUTTING LEGGING	517	bottle green/orange	uni.	page 83
<b>1STE</b>	HEDGE TRIMMING CHAPS	503	spruce green	uni.	page 85
<b>1SX4</b>	BRUSH CUTTING GAITERS	G60	green	uni.	page 84
<b>5SA1</b>	TIBIA PROTECTOR		yellow	uni.	page 84
<b>5SA2</b>	BRUSH CUTTING APRON	WJO	beige	uni.	page 84
<b>5SA3</b>	BRUSH CUTTING APRON	WJO	beige	uni.	page 84

### SPRAY PROTECTION

<b>4605</b>	SPRAY PROTECTIVE RAIN BIB & BRACE	880	green	S-3XL	page 87
<b>4821</b>	SPRAY PROTECTIVE RAIN BIB & BRACE	S49	green	S-3XL	page 87

## FOUL WEATHER &amp; WORKWEAR: BASE LAYER

<b>385A</b>	HI-VIS T-SHIRT	FC1	hi-vis orange	S-3XL	page 90
<b>385A</b>	HI-VIS T-SHIRT	FY1	hi-vis yellow	S-3XL	page 90
<b>397A</b>	HI-VIS T-SHIRT	844	hi-vis yellow/red	S-3XL	page 90
<b>397A</b>	HI-VIS T-SHIRT	914	hi-vis orange/grey	S-3XL	page 90
<b>2666</b>	HI-VIS T-SHIRT	FY1	hi-vis yellow	S-3XL	page 92
<b>2666</b>	HI-VIS T-SHIRT	FC1	hi-vis orange	S-3XL	page 92
<b>2666</b>	HI-VIS T-SHIRT	FR1	hi-vis red	S-3XL	page 92

## FOUL WEATHER &amp; WORKWEAR: THERMAL LAYER

<b>087A</b>	BODYWARMER	N20	black	S-3XL	page 94
<b>087A</b>	BODYWARMER	B81	blue	S-3XL	page 94
<b>087A</b>	BODYWARMER	M44	grey	S-3XL	page 94
<b>284A</b>	HI-VIS PULL-OVER	856	hi-vis yellow	S-3XL	page 93
<b>284A</b>	HI-VIS PULL-OVER	707	hi-vis orange	S-3XL	page 93
<b>611Z</b>	FLEECE JACKET	201	navy	S-3XL	page 94
<b>611Z</b>	FLEECE JACKET	203	red/black	S-3XL	page 94
<b>611Z</b>	FLEECE JACKET	312	grey/black	S-3XL	page 94
<b>7472</b>	FLEECE JACKET	A96	olive green	S-3XL	page 94
<b>7472</b>	FLEECE JACKET	B90	navy	S-3XL	page 94
<b>9833</b>	HI-VIS SOFTSHELL	FC1	hi-vis orange	S-3XL	page 93
<b>9833</b>	HI-VIS SOFTSHELL	FY1	hi-vis yellow	S-3XL	page 93
<b>9833</b>	HI-VIS SOFTSHELL	FR1	hi-vis red	S-3XL	page 93
<b>9834</b>	SOFTSHELL	128	red/black	S-3XL	page 94
<b>9834</b>	SOFTSHELL	760	black/grey	S-3XL	page 94
<b>9834</b>	SOFTSHELL	312	grey/black	S-3XL	page 94
<b>9834</b>	SOFTSHELL	201	navy/black	S-3XL	page 94

## FOUL WEATHER &amp; WORKWEAR: PROTECTION LAYER

<b>198A</b>	RAIN JACKET	FC1	hi-vis orange	S-3XL	page 98
<b>198A</b>	RAIN JACKET	FY1	hi-vis yellow	S-3XL	page 98
<b>198A</b>	RAIN JACKET	FR1	hi-vis red	S-3XL	page 98
<b>199A</b>	RAIN TROUSERS	FC1	hi-vis orange	S-3XL	page 98
<b>199A</b>	RAIN TROUSERS	FY1	hi-vis yellow	S-3XL	page 98
<b>199A</b>	RAIN TROUSERS	FR1	hi-vis red	S-3XL	page 98
<b>1SJ3</b>	RAIN JACKET	041	olive green/hi-vis orange	S-2XL	page 97
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<b>209A</b>	RAIN JACKET	320	hi-vis yellow/green	S-2XL	page 99
<b>209A</b>	RAIN JACKET	717	hi-vis red/grey	S-3XL	page 99
<b>209A</b>	RAIN JACKET	065	hi-vis yellow/yellow	S-3XL	page 99
<b>209A</b>	RAIN JACKET	279	hi-vis orange/navy	S-3XL	page 99
<b>608Z</b>	RAIN JACKET	201	navy/black	XS-3XL	page 98
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<b>4910</b>	RAIN COVERALL	B90	navy	S-3XL	page 97
<b>4910</b>	RAIN COVERALL	A41	olive green	S-3XL	page 97
<b>6360</b>	RAIN TROUSERS	A41	olive green	S-3XL	page 96
<b>6360</b>	RAIN TROUSERS	B90	navy	S-3XL	page 96
<b>6360</b>	RAIN TROUSERS	Y58	yellow	S-3XL	page 96

## HEAD-TO-TOE PROTECTION

### FOOTWEAR

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<b>396A</b>	THERMO SOCKS		grey/red	37-40 (10), 41-44 (11), 45-48 (12)	page 107
<b>3SA3</b>	CHAINSAW BOOTS		khaki	36-48	page 104
<b>3SA5</b>	GAITERS		green	39-42, 43-46	page 105
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<b>3SB3</b>	CHAINSAW BOOTS		black	39-49	page 104
<b>3SC7</b>	RUBBER CHAINSAW BOOTS		orange/green	38-48	page 105
<b>3SD3</b>	CHAINSAW BOOTS		red/black	38-48	page 102

### GLOVES & CUFFS

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<b>1SX1</b>	CUFFS	FR1	red	uni.	page 112
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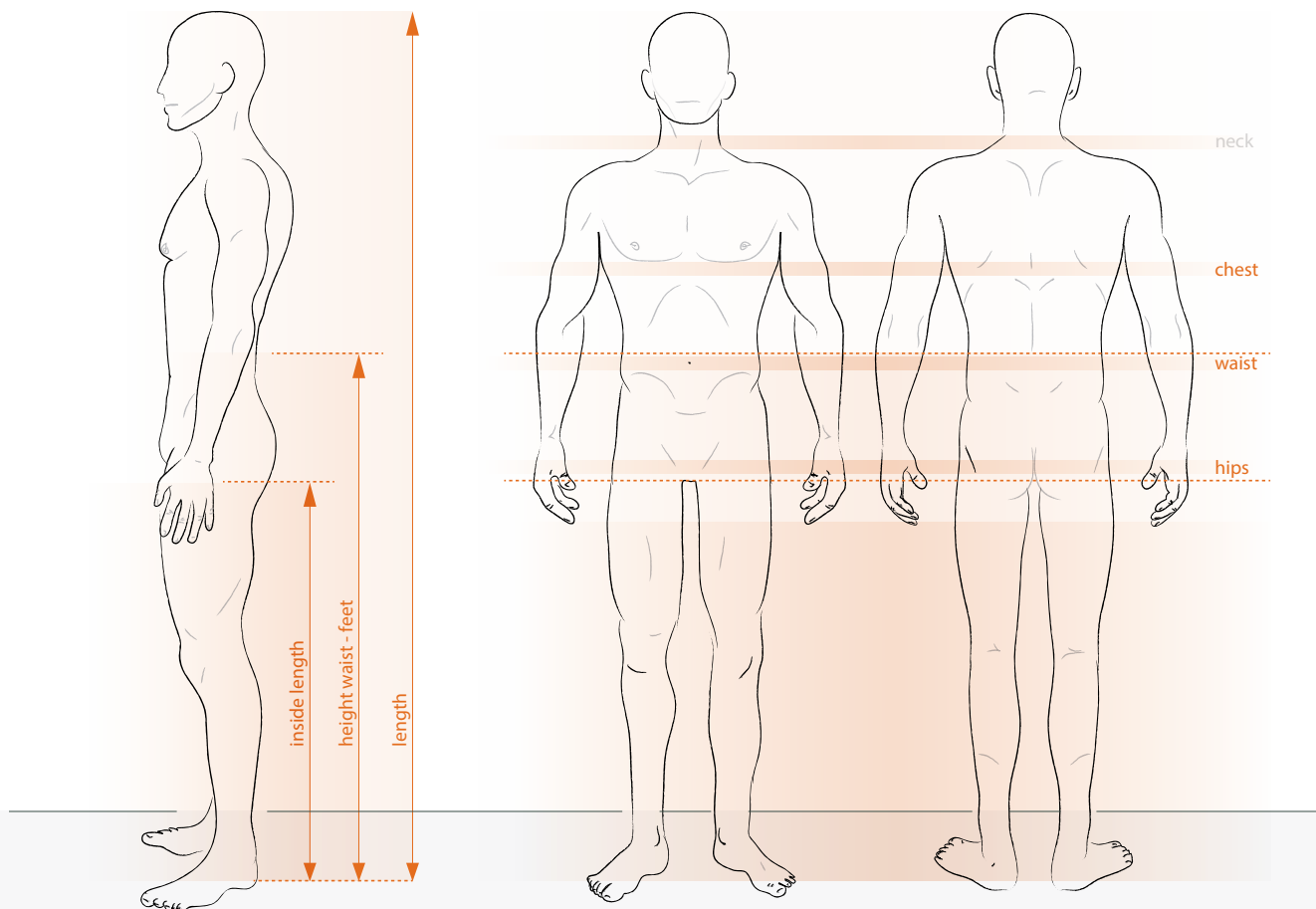
### HEAD PROTECTION

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# SIZE TABLE



	<b>EN 340:2003</b>		<b>EN 340:2003</b>
	<b>chest</b>		<b>hips</b>
<b>XS</b>	78 - 86 cm	<b>XS</b>	66 - 74 cm
<b>S</b>	86 - 94 cm	<b>S</b>	74 - 82 cm
<b>M</b>	94 - 102 cm	<b>M</b>	82 - 90 cm
<b>L</b>	102 - 110 cm	<b>L</b>	90 - 98 cm
<b>XL</b>	110 - 118 cm	<b>XL</b>	98 - 106 cm
<b>2XL</b>	118 - 129 cm	<b>2XL</b>	106 - 117 cm
<b>3XL</b>	129 - 141 cm	<b>3XL</b>	117 - 129 cm
<b>4XL</b>	141 - 153 cm	<b>4XL</b>	129 - 141 cm
		<b>UNI</b>	82 - 106 cm

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SIP® Protection constantly searches to improve every detail. Thus model changes are possible.

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