

SENSATIONAL COLLECTION

PLALINE HIGH VISIBILITY CLOTHING

 **PLANAM**
Fashion for your profession

COMFORT ZONE PLALINE HIGH-VISIBILITY PROTECTION

The basic idea behind our Plaline high-visibility collection: "Maximum visibility with maximum wearing comfort." Based on this, we have developed our range for you. The result can be seen and felt in the truest sense of the word.

High-visibility requirements according to EN ISO 20471 for workwear that ensures optimal visibility? Done! Additional feel-good factor? Already integrated! And, last but not least, the range scores top marks with modern tailoring for a casual look.



Wearing comfort
Thanks to 25 per cent cotton content



Practical equipment features
Numerous pockets for sufficient storage space

Best visibility and perfect combination options
The dungarees with fluorescent reflective stripes can be perfectly combined with the blouson and the softshell jacket from the Plaline range.

Well-thought-out details
For example, a knee pad can be inserted into the attached knee pocket





HIGH-VISIBILITY & WEARING COMFORT – OFF YOU GO!

Our Plaline high-visibility protection range is geared to the tasks of everyday working life – and to the comfort of the wearer.

Comfortable to wear and with maximum visibility according to EN ISO 20471 – that's what makes Plaline high-visibility protection stand out. The collection is ideally suited if the deployment area requires high-visibility clothing and you want the highest level of wearing comfort at the same time.

PLALINE HIGH VISIBILITY CLOTHING

	BLOUSON, TROUSERS AND DUNGAREES	SOFTSHELL JACKET
MATERIAL	<p>Main colour 75 % polyester 25 % cotton (approx. 290 g/m²)</p> <p>Contrasting colour 65 % polyester 35 % cotton (approx. 280 g/m²) canvas weave</p>	<p>Outer material 100 % polyester Softshell (approx. 320 g/m²)</p> <p>Inner lining 100 % polyester Fleece</p>
DESIGN	Reflective material silver	Reflective material silver
COLOURS	orange/zinc, yellow/zinc	orange/slate, yellow/slate
CLOTHING SIZES	<p>Normal sizes 42 – 44 – 46 – 48 – 50 – 52 – 54 56 – 58 – 60 – 62 – 64</p> <p>Slim sizes 90 – 94 – 98 – 102 – 106 – 110</p> <p>Short sizes 24 – 25 – 26 – 27 – 28 – 29</p>	<p>International sizes S – M – L – XL – XXL – XXXL – 4XL – 5XL – 6XL – 7XL – 8XL</p>
CARE INSTRUCTIONS	 <p>max. 50 washes</p>	 <p>max. 25 washes</p>
KNEE PROTECTION	certified knee protection in conjunction with a PLANAM knee pad (article number 9901027) for trousers and dungarees	

APPLICATIONS

Different professions place different demands on workwear. We have provided a simple overview summarising the applications for which the Plaline High Visibility Clothing range is suitable.



You can find more information about our range and its applications via the QR code or at www.planam.de/applications



Building industry



Manufacturing / Warehouse / Logistics



Municipal services / Road constructions



Garden / Landscaping



Wood industry



Leisure

PLALINE HIGH VISIBILITY CLOTHING

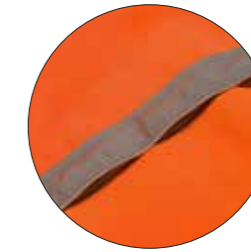
Blouson



Even small tools are quick and easy to hand in the **sleeve pocket**



The closable **chest pocket on the left** provides even more storage space



The **ventilation at the back** ensures your body remains a consistent temperature

EXTRAS

- + 2 side patch pockets with flaps and press studs
- + 1 chest pocket on the left with flap and Velcro closure
- + double chest pocket on the right
- + mobile phone pocket on the right
- + 2 pen loops
- + adjustable cuffs with press studs
- + concealed front zip
- + stand-up collar
- + adjustable waistband with Velcro
- + sleeve pocket on the left
- + 2 golf pleats on the back
- + ventilation slit in the back

CLOTHING SIZES

Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

Slim sizes

90 – 94 – 98 – 102 – 106 – 110

Short sizes

24 – 25 – 26 – 27 – 28 – 29

CERTIFICATES AND STANDARDS



EN ISO 20471:2013
+A1:2016



 View this item in all available colours under "Products" at planam.de

APPLICATIONS



COLOURS



5600
orange/zinc

5601
yellow/zinc

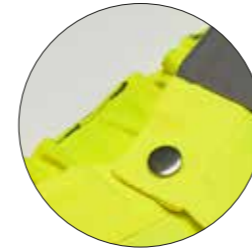
PLALINE HIGH VISIBILITY CLOTHING

Trousers

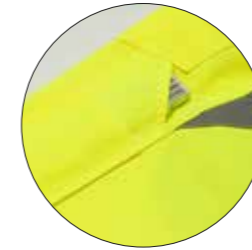


 View this item in all available colours under "Products" at planam.de

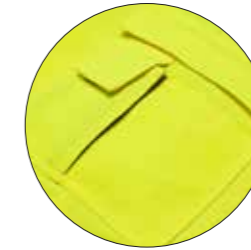
APPLICATIONS



The **higher waistband with elastic** ensures the perfect fit, no matter what you are doing



Work tools are easy to reach thanks to the **ruler pocket**



Even more storage space thanks to the **thigh pocket**

EXTRAS

- + 2 pouch pockets
- + 2 patch knee pockets
- + double ruler pocket on the right
- + thigh pocket with flap and Velcro closure on the left
- + mobile phone pocket on the left
- + elastic waistband
- + 2 back pockets with flaps and Velcro closure
- + zip fly
- + hammer loop

CLOTHING SIZES

Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

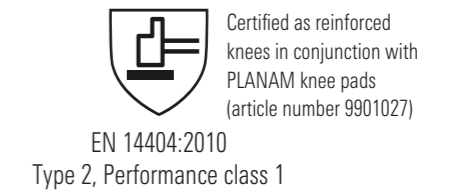
Slim sizes

90 – 94 – 98 – 102 – 106 – 110

Short sizes

24 – 25 – 26 – 27 – 28 – 29

CERTIFICATES AND STANDARDS



COLOURS



5610
orange/zinc

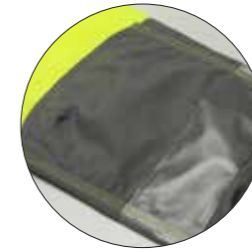
5611
yellow/zinc

PLALINE HIGH VISIBILITY CLOTHING

Dungarees



Don't lose anything in the **pocket with coin pocket**



Knee protection can be inserted into the patch **knee pocket**



No searching for tools thanks to the **bib pocket**

EXTRAS

- + 2 pouch pockets
- + 2 patch knee pockets
- + double ruler pocket on the right
- + thigh pocket with flap and Velcro closure on the left
- + mobile phone pocket on the left
- + bib pocket with flap and Velcro closure
- + further bib pocket with zip
- + 2 pen loops
- + elastic waistband
- + 2 back pockets with flaps and Velcro closure
- + adjustable waistband with jeans button
- + zip fly
- + high back with elastic braces
- + braces with elastic insert
- + clip buckles on the braces.
- + hammer loop

CLOTHING SIZES

Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

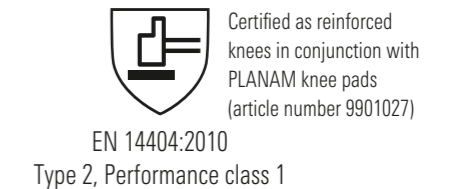
Slim sizes

90 – 94 – 98 – 102 – 106 – 110

Short sizes

24 – 25 – 26 – 27 – 28 – 29

CERTIFICATES AND STANDARDS



View this item in all available colours under "Products" at planam.de

APPLICATIONS



COLOURS



5620
orange/zinc

5621
yellow/zinc

PLALINE HIGH VISIBILITY CLOTHING

Softshell Jacket



You can change the softshell jacket to suit your requirements thanks to the **adjustable cuffs**



The practical **chest pocket with zip closure** keeps your valuables safe



The **fleece** inside makes the jacket comfortable to wear

EXTRAS

- + windproof
- + 2 side pockets
- + 1 chest pocket on the right with zip
- + reflective piping
- + adjustable cuffs
- + concealed front zip
- + soft fleece lining

CLOTHING SIZES

International sizes

S – M – L – XL – XXL – XXXL – 4XL – 5XL – 6XL – 7XL – 8XL

CERTIFICATES AND STANDARDS



EN ISO 20471:2013
+A1:2016



View this item in all available colours under "Products" at planam.de

APPLICATIONS



PRODUCT FEATURES



windproof

stretch

COLOURS



5660
orange/slate

5661
yellow/slate

STANDARDS & CERTIFICATION



DIN EN 14404 KNEE PROTECTION FOR WORKERS KNEELING DOWN

Working in a kneeling position creates constant pressure on the knee. Knee protection is designed to distribute the forces produced evenly across it. In addition to this, it is designed to prevent injuries or damage caused by hard surfaces, small stones or similar objects lying on the ground.

Knee protection is subdivided into 4 types:

- Type 1: Knee protection that is separate from clothing and fastened to the leg.
- Type 2: Pads inserted into pockets on trouser legs or permanently attached to the trousers.
- Type 3: Equipment that is not attached to the body.
- Type 4: Knee protection forming part of a unit with additional functions.

In addition to this, there are three performance classifications:

- Level 0: No protection against punctures.
- Level 1: The knee protection is suitable for even ground where there is no risk of objects over 1 cm in height.
- Level 2: The knee protection is for use in challenging conditions, such as for example when kneeling on stones in mines or quarries.

The PLANAM knee pad product no. 9901027 is certified as Type 2, Level 1/ Level 0 knee protection. This certification only applies in conjunction with PLANAM trousers, dungarees or overalls and cannot be transferred to other products.



THE OEKO-TEX® STANDARD 100

The OEKO-TEX® Standard 100 is an independent testing and certification system for raw, intermediate and end products for textiles from all stages of processing. Examples of certifiable articles are raw and dyed/refined yarns, raw and dyed/refined woven and knitted fabrics, ready-made articles (garments of all types, home textiles, bedding, terry towelling, toys made of textiles and many others).

Tests for harmful substances cover:

- + substances banned by law
- + substances regulated by law
- + chemicals that are known to be potentially harmful to health (but are not yet regulated by law)
- + healthcare parameters in their entirety, the requirements go well beyond existing national legislation.

Why OEKO-TEX®?

The OEKO-TEX® Standard 100 was developed in the early 1990s as a response to the need of consumers and the general public for textiles that do not pose a risk to health. Negative headlines such as "Poisons in textiles" were widespread at the time, labelling all chemicals used in the production of textiles as negative and harmful to health.

Yet the demands made of modern textile products cannot be met without using certain chemical substances. Fashionable colours, easy care, long life and many other functional properties are demanded of textiles today and are, to some extent, and depending on their intended use (e.g. for professional and protective clothing), quite indispensable.



UV PROTECTIVE CLOTHING WITH INTEGRATED SUN PROTECTION

The largest organ of the human body is the skin, and it is exposed to great danger in summer. UV rays from the sun can increase the risk of skin cancer. Standard textiles are radiolucent, providing insufficient protection.

PLANAM's UV-protective clothing gives guaranteed certified safety. Awarded UV protection certificates "PROTECT 80" and "PROTECT 40", this range guarantees maximum prevention. Just like for sunscreens, the figure indicates the protection factor for spending longer in the sun safely. Our PLANAM models allow the wearer to remain in the sun 80 or 40 times longer than those without protection. With their integrated sun protection factor, the finished garments provide the skin with optimum protection. Those with sensitive skin can stay in the sun longer without having to cover themselves in sunscreen. It is important to know the individual skin type in order to determine the individual's protection time (length of possible exposure to the sun without risk of skin damage). The UV protection factor specified (e.g. Protect 80) gives the factor by which the individual's protection time can be extended just by wearing these textiles.

DIN EN ISO 20471 HIGH-VISIBILITY CLOTHING

Darkness and poor visibility are big risk factors when working outside. In particular, dangerous situations in road traffic, such as at roadworks, are frequently underestimated. And around railway tracks, at airports and around ports, good visibility is a top priority.

DEFINITION OF LEVELS OF RISK

Standard DIN EN ISO 20471 does not differentiate between professional and non-professional use. It is concerned generally with all hazardous situations where there is a danger of not being seen and exclusively with warning clothing for high risk scenarios. The clothing is subdivided into classes 1, 2 and 3.

DESIGN

Emphasis is placed on the visibility of people. Fluorescent material and horizontal reflective strips are used to make the torso visible and, where applicable, trouser legs and sleeves visible too. Class 3 products must make the torso visible and, if not both, either have sleeves with reflective strips or long trouser legs with reflective strips.

Minimum area of visible material

Material	Class 1	Class 2	Class 3
Background material	0.14 m ²	0.50 m ²	0.80 m ²
Retroreflective material	0.10 m ²	0.13 m ²	0.20 m ²
Material with combined properties	0.20 m ²	n. a.	n. a.

The clothing class is based on the smallest area of visible material.

Therefore warning vests or warning dungarees may not be certified individually for class 3. Clear combinations of horizontal and vertical retroreflective stripes offer the best visual contrast against most backgrounds. Excessive diagonal features and unclear shapes must be avoided. Combinations of clothing, for example a high-visibility jacket with high-visibility trousers, can be certified by DIN EN ISO 20471.



PICTOGRAM:

Labelling is with the pictogram and the class 1, 2 or 3. The clothing's instructions for use must also state that the service life of the product is not solely dependent on the number of cleaning cycles, but also on use, care and storage.

REFLECTIVE BAND

The Reflective Material has been designed for use on high-visibility clothing, workwear and professional clothing to improve the visibility of the wearer when it is dark or visibility is poor. The material shines a brilliant white when illuminated by vehicle headlights, even if the wearer is at the edge of the road. Reflective Material is composed of exposed retroreflective lenses bonded to a durable blended fabric (65% polyester / 35% cotton). It far exceeds the minimum retroreflective performance required by the highest category (class 3). Its retroreflective properties are not dependent on the direction the clothing is facing.

PERSONALISATION IN NEXT TO NO TIME

Workwear is advertising space for your logo and acts like a business card for your company. Personalisation ensures a recognisable and positive company image. Our finishing service brings your message to a wider audience in a customised, professional and fast manner.

PLANAM Individual specialises in personalising your workwear. From reflective appliqués to transfer prints and embroidery, we offer multiple personalisation options of the highest quality. Whether you need small quantities for handicraft businesses or large runs for industrial companies – our team of experts are on hand to provide you with personal advice and detailed information about the optimal finishing types for our products. This also includes finishing options with methods specifically adapted to the certification requirements of certified protective clothing.



+49(0)5245-86060

**Individual logo,
individual support**
You can call us for advice
from Monday to Friday
between 8am and 5pm.

PLALINE HIGH VISIBILITY CLOTHING

MEN'S

Blouson	orange/zinc	5600
	yellow/zinc	5601
Trousers	orange/zinc	5610
	yellow/zinc	5611
Dungarees	orange/zinc	5620
	yellow/zinc	5621
Softshell	orange/slate	5660
Jacket	yellow/slate	5661



You can view interactive images of products from the Plaline High Visibility Clothing range here:



Your PLANAM specialists

 **PLANAM**
Fashion for your profession