# ELTEN




WALK ON THE SAFE SIDE

# MAXIMUM SAFETY AND COMFORT - ELTEN

Founded in 1910 in Uedem on the Lower Rhine, ELTEN has developed into one of the leading manufacturers of safety and occupational footwear in Europe. The company continuously invests in research and development in order to develop innovative safety shoes that fulfil the modern working world's requirements.

The ELTEN range includes safety and work shoes for men and women in all standard protection classes. Whether you need lightweight sandals, robust boots or comfortable low shoes - ELTEN has the right shoe for every need.




# MADE FOR PROFESSIONALS - JORI BY ELTEN

Jori is a brand from traditional company ELTEN, which specialises in high-quality safety shoes. The distinctive logo with the knight's shield symbolises the traditional quality and reliability that have characterised Jori shoes for decades.

Jori safety shoes offer optimum protection against typical workplace risks such as falls, crushing injuries and puncture hazards. The modern design of the shoes is tailored to the needs of professionals in various industries.



# LIKE A SEAT BELT FOR YOUR FEET: SAFETY SHOES FROM ELTEN WITH BETTERGUARDS TECHNOLOGY

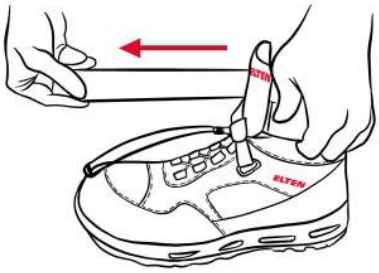
ELTEN offers safety shoes with BETTERGUARDS foot protection, an innovative technology that protects the ankle like a seat belt. The BG-Power, a multi-patented mini-piston, is concealed in the side of the shoe upper and is activated when the foot twists outwards.



FAST AND RELIABLE

BETTERGUARDS foot protection reacts to critical movements and stabilises the ankle within a few milliseconds. As soon as the critical movement is over, the system automatically releases and is immediately ready for use again.

BETTERGUARDS is available in both lightweight safety shoes and occupational footwear from ELTEN, offering optimal ankle protection tailored to specific working environments. Unlike rigid protective systems, this technology also allows for greater freedom of movement during normal activity.





THE ADVANTAGES OF BETTERGUARDS:

- Innovative ankle protection
- Only activates in critical situations
- Invisibly integrated in the upper
- Fast and reliable stabilisation
- High wearing comfort and freedom of movement during normal movements
- Suitable for a wide range of applications

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# BIOMEX DYNAMICS

## BIOMECHANICAL ROLLING MOTION SUPPORT

| | |
|---|---|
| **MATERIAL** | TPU (thermoplastic polyurethane) |
| **RESISTANCE** | Heat-resistant to approx. 130°C<br>Flexible at cold temperatures to approx. -30°C<br>Oil and fuel resistant |
| **PROFILE DEPTH** | 4,0 mm |
| **SPECIAL FEATURES** | Natural movement dynamics<br>Prevents walking on the inside<br>Trains the foot muscles and thus stabilises the foot, knee and hip joints |





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# BODYGUARD FOR THE FEET

## BIOMEX PROTECTION©

The sleeve is firmly "anchored" in the area of the midsole. When tensile and compressive forces act at the same time – as frequently occurs in the case of twist accidents – it provides the foot with optimum stability. It also follows the natural axes of the joints in the foot and in the knee in their movement towards the middle of the body. This decisively reduces the risk of twisting.

The biomechanical BIOMEX PROTECTION© technology takes the natural, asymmetrical movement axes of the foot and lower leg into account. The sleeve is accordingly constructed asymmetrically and lies in front of the ligaments during the movement. It also reduces the lever action of the forefoot on the lower ankle joint and the lateral ligaments.

- Biomechanical construction
- Optimum protection for the ankle joints
- Stirrup technique for high stability
- Light plastic material
- High flexibility while walking or kneeling
- Great wearing comfort







# PERFECT FIT IN NO TIME AT ALL

## BOA® FIT SYSTEM

BOA® Fit System – is an innovative fit system without laces, buckles or Velcro fasteners, which holds all day long without loosening. Because once the system has been latched in place, laces and dial stay in position without re-tightening!

**PARTICULAR ADVANTAGE:**
The fit system can be easily operated with one hand. It remains securely closed, eliminating the risk of tripping! And the BOA® Fit System works like lightning, too.

**PUSH IN TO ENGAGE**

**TURN TO TIGHTEN**

**PULL UP FOR QUICK RELEASE**





# PROBLEM-SOLVING FOR SENSITIVE FEET

DIALUTION

DIALUTION BY ELTEN

Foot conditions and forefoot deformities are becoming increasingly common — from hammer, claw, or bunion toes to diabetic foot syndrome. The DIALUTION by ELTEN has been specially developed for sensitive or medically affected feet. An extra-wide last, an enlarged toe cap, skin-friendly materials, and added volume in the forefoot area provide pressure-free comfort — even in cases of swelling, deformities, or bandaging.

SPECIAL ADVANTAGE:

The integrated inner shoe made from antibacterial material absorbs wound fluid without releasing it to the outside. This „shoe within a shoe" ensures maximum hygiene, as it is easy to clean — washable at 60 °C — helping to prevent reinfections. The white inner lining makes open wounds easy to spot, allowing for prompt treatment. In addition to the removable inner shoe, the innovative design includes a pressure-distributing insole. Ideal for sensitive feet in demanding work environments.






# ORTHOPEDIC FOOT PROTECTION
## WITH INDIVIDUAL ADJUSTMENT

ELTEN offers solutions for the most frequently appearing modifications. When a shoe is adjusted, it is designed in such a way that foot problems which make walking difficult, are prevented or even eliminated by a single adjustment or a combination of adjustments. A variety of materials in different colors and profiles are available so that this work can be carried out visually inconspicuous and individually.



## ORTHOPEDIC ADJUSTMENTS



**SHOE-HEIGHTENING**
up to 15 mm in the ball
up to 30 mm (measured on heel)

**ORTHOPAEDIC DEVICE WHICH HELPS THE FOOT ROLL PROPERLY**
e.g. for relief of the forefoot







**SHOE-HEIGHTENING OF INSIDE AND OUTSIDE EDGES**
e.g. for knee complaints



**HEEL-ADJUSTMENT**
e.g. for short legs

# ORTHOPAEDIC FOOT PROTECTION (DGUV 112-191)
## A STRUCTURED INSOLE SUPPLY

In order to ensure the necessary orthopaedic support, ELTEN offers a variety of insoles with different procurement options. Depending on your individual needs, the orthopedic shoemaker or medical supply store of your choice can obtain the appropriate insole from us or the respective partner. If you have chosen an ELTEN model that comes with the ELTEN ESD Pro insole (in black or grey), the insole already in the shoe can be adapted.



# ORTHOPEDIC INSOLE SUPPLY

Each type of insole is only certified for selected product groups from the ELTEN collection. If the insole is replaced, the shoe will only retain its tested protective properties if the insole is replaced by a comparable insole of the same type from the manufacturer. Manufacturing instructions for insole supply are available at elten.com/ortho or by sending an email request to service@elten.



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# PENETRATION RESISTANCE
## FOR A SECURE APPEARANCE



ELTEN fits its S1P and S3 safety shoes with different kinds of penetration-inhibiting inlays. These are steel midsoles and non-metallic materials. Both fulfil the minimum requirements regarding penetration resistance in accordance with EN ISO 20345. For higher requirements concerning penetration inhibition, such as for example in the construction industry, we recommend using S3 safety shoes equipped with steel midsoles.




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# OPTIMISED FOR EACH FOOT TYPE
## A PERFECT FIT

ERGO ACTIVE

For the Ergo-Active series we developed three different shoe lasts which are optimally adapted to the three most common foot types. Furthermore two toe protection cap versions with different space also offer sufficient room for the toes in the forefoot area of the shoe and enable orthopaedic adjustments of the insole.




**TYPICAL FITTING ISSUES**

**TYP 1**



- For strong feet
- Short toes
- Medium-wide ball and heel area
- Steep ball angle

**TYP 2**



- For normal feet
- Long toes
- Medium-wide ball and heel area
- Flat ball angle

**TYP 3**



- For slim feet
- Medium-sized toes
- Narrow ball and heel area
- Medium ball angle

**MOTION OPTIMIZED FIT**




# ESD DOES NOT EQAL ESD
## ESD DESIGN

ESD shoes should be used if there is a necessity to conduct electrostatic charge away in a controlled manner through the shoes. ESD approved safety shoes and occupational shoes thus protect not only personnel, but also provide protection for components and assemblies at risk from electrostatic energy.

### ESD DESIGN

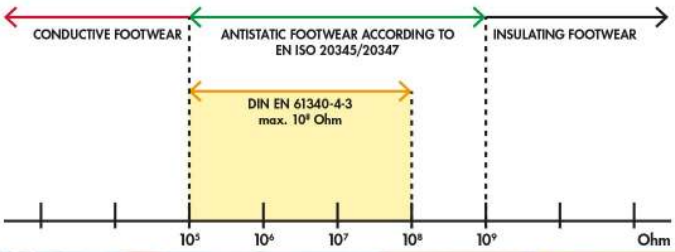
The equipment of ESD shoes (ESD = electrostatic discharge) makes it possible to divert electrostatic charges in a controlled manner. Such shoes, primarily, do not protect the person, but rather protect the devices sensitive to electrostatic charges in sensitive working areas.

### ESD SUITABLE SOFT-FLEECE INSOLE

An insole provides the connection between the upper and the sole. The ESD compatible soft-fleece insole protects against electrostatic discharge (electrostatic discharge = ESD), even when 100% dry, even without the use of additional aids. The insole's good moisture absorption provides a comfortable foot climate and high degree of wearing comfort. These insoles are approx. 50% lighter than comparable soles made from natural materials and more flexible and more resistant to impact. They breathe well and provide excellent abrasion resistance.

### ESD SHOE

ESD shoes (ESD = electrostatic discharge) do not primarily protect the person, but rather protect the devices sensitive to electrostatic discharge in sensitive working areas. With a contact resistance of 105–108Ω (Ohm), they prevent uncontrolled unloading after electrostatic charging by diverting the electrostatic charge in a controlled manner.






# XL EXTRALIGHT®

## THE SECRET LIES IN THE SOLE

| | |
|---|---|
| **MATERIAL** | EVA (Ethylene-Vinyl-Acetate)<br>with rubber inserts |
| **RESISTANCE** | Antistatic<br>Excellent slip resistance<br>Oil and fuel resistant |
| **PROFILE DEPTH** | 6,0 mm |
| **SPECIAL FEATURES** | Feels like walking barefoot<br>Highest wearing comfort<br>Low weight |





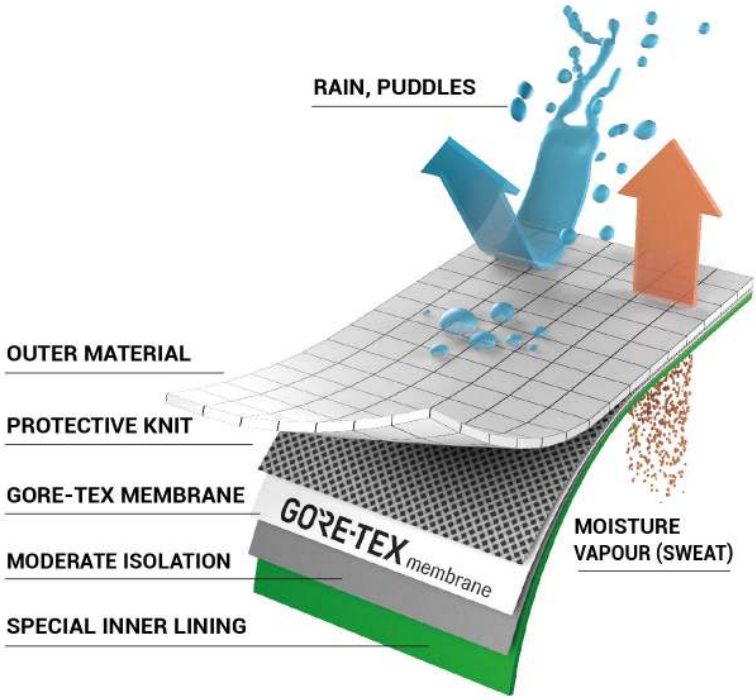
# WHEN IT'S COLD AND WINDY

## GORE-TEX

Only shoes that are comfortable for climatic conditions are really practical. As soon as our feet become too warm, too cold or even wet, we begin to feel uncomfortable. This can affect our health and ability to concentrate.

GORE-TEX shoes are durably waterproof and highly breathable. They keep your feet dry and offer optimum climatic comfort – in all weathers, throughout the entire product life cycle.





# GORE-TEX WITH EXTRAGUARD
# INNOVATIVE UPPER MATERIAL TECHNOLOGY

For those working in tough environments—such as construction, demolition, or utility services—footwear needs to be both extremely durable and lightweight with high flexibility. EXTRAGUARD is a cutting-edge upper material technology that combines the toughness of traditional materials with the lightness and breathability of modern textiles.
EXTRAGUARD has the look and feel of leather but is approximately 40% lighter, absorbs significantly less moisture, and dries faster than comparable materials. It also offers superior thermal performance in wet conditions, with noticeably less heat loss than leather footwear.



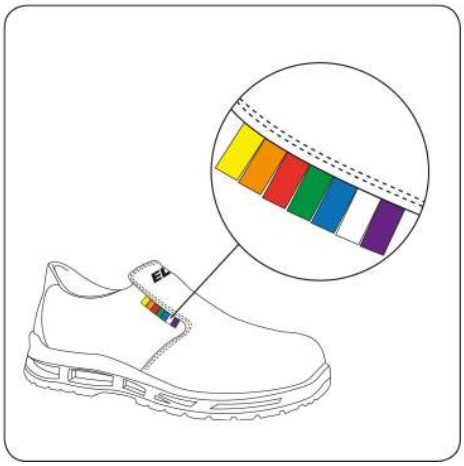


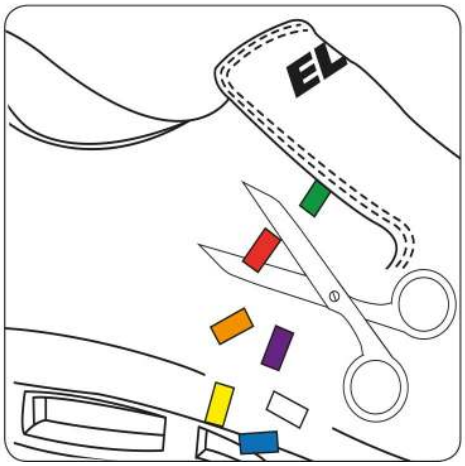


# FOOTWEAR WITH LABELLING FUNCTION
## INDIVIDUAL FOR YOUR FIELD OF APPLICATION

By using coloured labels on the edge of the upper, these shoes can be marked for different applications. Unneeded labels are removed so that only the desired colour markings remain. In this way, the labels left on the shoe make it possible to see whether the wearer of the shoe is authorised for the marked area of use! For safety footwear with laces, Lace Loops (coloured lace tags) can be ordered that fulfil the same function.









# MULTIPLE WIDTHS
## EVERY FOOT IS UNIQUE

With a number of safety shoes we offer you a comfortable multi-width system, which creates the individually required space for every foot: Through greater volume in the forefoot area. We have also adjusted the toe protection cap accordingly. It has „grown together“ with the width and offers effective protection because it also covers the toe area well at the sides, whilst the requisite remaining height is still intact.



**FOR THE FOOT OF AVERAGE WIDTH**



- Protective toe cap of normal width
- Ball area of normal width
- Normal instep volume

**FOR THE WIDER FOOT**




- Wide protective toe cap
- Wide ball area
- Increased instep volume

**FOR THE XX-WIDE FOOT**




- Wide protective toe cap
- Extrawide ball area
- Extremely Increased instep volume

# LABELING SAFETY SHOES ACCORDING TO EN ISO 20345:2022/ OCCUPATIONAL SHOES ACCORDING TO EN ISO 20347:2022

| **Characteristics SAFETY SHOES with toe protection (EN ISO 20345)** | | **SB** | **S1** | **S1P** | **S1PL** | **S1PS** | **S2** | **S2 WR (S6)** | **S3** | **S3L** | **S3S** | **S3 WR (S7)** | **S3L WR (S7L)** | **S3S WR (S7S)** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Characteristics OCCUPATIONAL SHOES without toe protection (EN ISO 20347)** | | **OB** | **O1** | **O1P** | **O1PL** | **O1PS** | **O2** | **O2 WR (O6)** | **O3** | **O3L** | **O3S** | **O3 WR (O7)** | **O3L WR (O7L)** | **O3 WR (O7S)** |
| Closed heel area | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Basic slip resistance test on ceramic tile + NaLS (soap solution) | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Treaded outsole | | | | | | | | | ● | ● | ● | ● | ● | ● |
| Antistatic | A | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Energy absorption capacity in the heel area | E | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Resistance to puncture 4.5 mm test nail (steel midsole) | P | | | ● | | | | | ● | | | ● | | |
| Resistance to puncture, 3 mm test nail (textile penetration protection) | S | | | | | ● | | | | | ● | | | ● |
| Resistance to puncture, 4.5 mm test nail (textile penetration protection) | L | | | | ● | | | | | ● | | | ● | |
| Water penetration and absorption | WPA | | | | | | ● | ● | ● | ● | ● | ● | ● | ● |
| Water resistance, entire shoe | WR | | | | | | | ● | | | | ● | ● | ● |

There is a transition period for the introduction of the new standards. Valid certificates do not have to be renewed before their regular expiration date. Therefore, the products in this flyer are sometimes certified according to the old, sometimes according to the new standard. Detailed information on the new standards can be found here: https://elten.com/en/technologies/norms/



# AGILIUM FREESTEP 2.0 ORTHOSIS
## ALL BENEFITS AT A GLANCE

ottobock.

- **DYNAMIC REDISTRIBUTION OF LOAD IN THE KNEE**
  When standing or walking, the orthosis relieves the affected area when necessary.
- **EASY TO WEAR BELOW THE KNEE**
  The Agilium Freestep 2.0 is comfortable to wear because it does not constrict or limit the knee when seated.
- **SUPPORT IN MANY SITUATIONS**
  The orthosis supports you in both everyday activities and strenuous sports activities.
- **NO SLIPPING**
  The Agilium Freestep 2.0 is worn in the shoe, so it does not slip.
- **DISCREET UNDER CLOTHING**
  The slim design allows you to wear the Agilium Freestep 2.0 discreetly under your clothes.
- **EASY TO USE**
  The orthosis can be put on like a shoe, making it easy to use.





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# AGILIUM FREESTEP 3.0 ORTHOSIS
## ALL BENEFITS AT A GLANCE

ottobock.

- **DYNAMIC REDISTRIBUTION OF LOAD IN THE KNEE**
  When standing or walking, the orthosis relieves the affected area when necessary.
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  The slim design allows you to wear the Agilium Freestep 3.0 discreetly under your clothes.
- **EASY TO USE**
  The orthosis can be put on like a shoe, making it easy to use.





# SEMI-ORTHOPEDIC INLAY SOLES
## FOR LADIES AND GENTLEMEN

People's feet are as varied as the people themselves. However, there are three types which occur more frequently than others. In order to support the particular foottypes efficiently, we have developed three different types of inlay soles. Each has a different level of arch support. This leads to individual cushioning and even weight distribution, which in turn serves to relieve pain and pressure points. Your feet will be softly bedded and tire less easily. And your back will also feel much more at ease immediately by the cushioning of your steps.



**LOW**
Support for flat feet and for comfortable shock absorption.



**MEDIUM**
For significantly more comfort for medium arches.



**HIGH**
For effective shock absorption if the foot arch is too high.



**FLAT FOOT**



**REGULAR FOOT**



**HIGH ARCH FOOT**



# TRANSFOAMERS
## VERY LIGHTWEIGHT AND FLEXIBLE

| | |
|---|---|
| **MATERIAL** | Rubber, EVA (Ethylene-Vynil-Acetat)/ TPU (thermoplastic polyurethane) |
| **RESISTANCE** | Heat-resistant to approx. 200°C, for short periods to 300°C<br>Flexible at cold temperatures to approx. -20°C<br>Oil and fuel resistant |
| **PROFILE DEPTH** | 2,5 mm |
| **SPECIAL FEATURES** | Ultra light & flexible<br>Very good cushioning<br>Highest comfort |

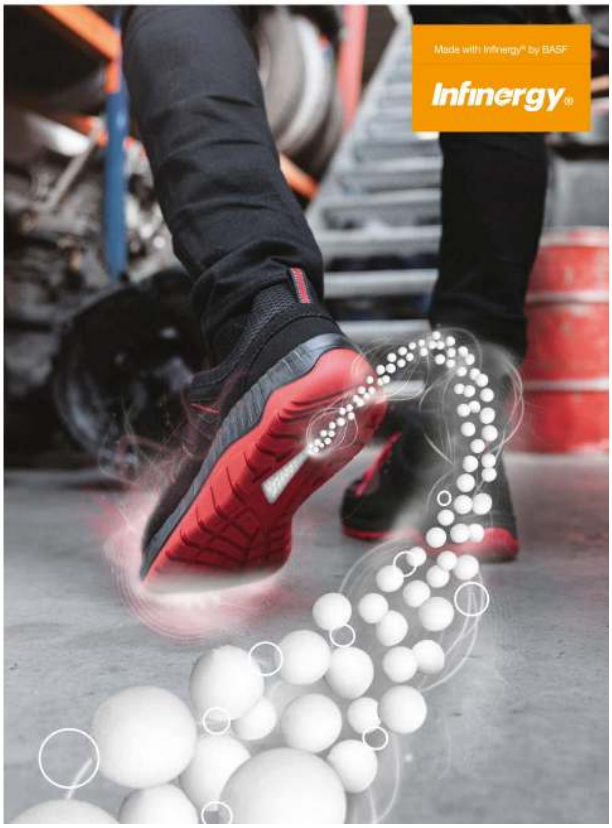




# CUSHIONING AT THE HIGHEST LEVEL

## NEW WAY OF WALKING WITH INFINERGY® BY BASF

You deserve to have the next generation of ELTEN Safety shoes in your job. Characteristics: Comfortable cushioning for working on hard floors, energy recovery while walking, protection of the ligaments and joints. Working is much easier with the Infinergy® midsoles from BASF.




- **EFFICIENCY**
  With every step Infinergy® absorbs enormous amounts of energy.
- **TEMPERATURE RESISTANCE**
  Infinergy® keeps its full functionality in a wide temperature range from -20 to +120° C.
- **PROTECTION OF THE JOINTS**
  The outstanding cushioning characteristics of Infinergy® steadily prevent the joints from damage.
- **BOUNCE**
  Infinergy® returns a lot more energy and drive to the wearer than conventional materials.
- **DURABILITY**
  Infinergy® stays durably elastic and always bounces back into its original shape.
- **WELLNESS**
  The wearer's feet remain fitter with Infinergy®. Furthermore, they tire less quickly.

# XXFIT – DYNAMIC AND MAXIMALLY COMFORTABLE

XXFIT offers the perfect fit for every foot. Three widths cover the three most common foot types, providing pressure-free support and stability. It's highlight is the WELLMAXX technology with BASF Infinergy® cushioning. This high-tech material protects joints and ligaments by cushioning every step and returning energy directly to the wearer.

TYPICAL FIT PROBLEMS
Poorly fitting shoes can cause pain and harm foot health in the long term. Choosing the right fit is therefore essential to prevent discomfort and stay healthy over time.

WELLMAXX FIT SERIES – PERFECT FOR EVERY FOOT TYPEThe Wellmaxx Fit series uses three specialized lasts for the most common foot types. Combined with variable toe cap widths, it provides maximum space in the forefoot area and an anatomically optimal fit.



✗ TOO WIDE




**FOR WIDE FEET**
· Short toe length
· Wide ball and heel width
· Steep ball angle



✗ TOO NARROW



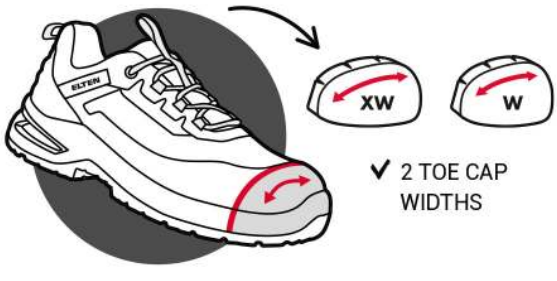

**FOR AVERAGE-WIDTH FEET**
· Long toe length
· Medium ball and heel width
· Flat ball angle



✗ TOO SHORT

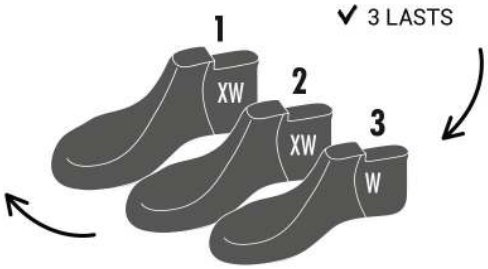



**FOR NARROW FEET**
· Medium toe length
· Narrow ball and heel width
· Medium ball angle




✓ 2 TOE CAP WIDTHS

✓ 3 LASTS



# MIDFOOT PROTECTION XRD® MET GUARD

## EFFECTIVE MIDFOOT PROTECTION

Midfoot injuries are painful and often require several weeks to heal. The main cause of these kinds of injuries are accidents with falling objects. XRD® MET GUARD is a midfoot protector inside the shoe: this flexible, shock-absorbent insert made of polyurethane foam is inserted directly into the instep area of the shoe and protects the metatarsal bones from injuries caused by falling objects or impacts.

- Extremely absorbent impact protection
- Long-lasting shock absorption
- Material retains its shape over time
- Thin, flexible and extremely light
- Moulds perfectly to the shape of the foot
- Ergonomic design
- Optimal mobility thanks to profiled surface



# YOUR SAFETY PARTNER

ELTEN

ELTEN.COM

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