

SAFETY FOOTWEAR



& WORKWEAR

**Iron
Steel®**
SCANDINAVIA

Footwear Symbols



**ALUMINIUM
TOECAP**



**COMPOSITE
TOECAP**



**LIGHT
WEIGHT**



**OIL RESISTANT
OUTSOLE**



**HEAT
RESISTANT
OUTSOLE**



**BREATHABLE
MATERIAL**



**NON-METAL
ANTI-
PENETRATION**



ANTISTATIC



ESD



**WATER
RESISTANT
UPPER**



WATERPROOF



**COLD
INSULATION**



**HEEL ENERGY
ABSORPTION**



**PORON
CUSHIONING**



**SR SLIP
RESISTANCE
RATING**

Oslo

#201673 380g



EUR 36 – 47

EN ISO 20347:2022 O1 E FO HRO WPA SR ESD

BOA®

**FIT TO GO
FURTHER.™**



Milano

#201489 520 g

**Antistatic Removable
Cambrelle IP
Footbed including
Poron®**

**High Abrasion Resistant
Breathable Mesh**

**High
Rebound
Compound
Phylon
Midsole**

**Aluminium
Toe Cap**

**Non-metal
Anti-penetration**

**Dual Density
Light Weight Sole**

EUR 37 – 47

EN ISO 20345:2011 S1P HRO SRC



Verona

#201606 564g

**Antistatic Removable
Cambrelle IP
Footbed including
Poron®**

**High Abrasion Resistant
Breathable Mesh**

**High
Rebound
Compound
Phylon
Midsole**

**Aluminium
Toe Cap**

**Non-metal
Anti-penetration**

**Dual Density
Light Weight Sole**

EUR 37 – 47

EN ISO 20345:2011 S1P HRO SRC

BOA®

**FIT TO GO
FURTHER.™**

poron^xrd | extreme
impact
protection



Leeds

#201550 590 g



EUR 37 – 47

EN ISO 20345:2011 S1P HRO SRC

BOA®

FIT TO GO
FURTHER.™

poron^{xrd} | extreme
impact
protection



Sheffield

#201579 620 g



EUR 37 - 47

EN ISO 20345:2011 S3 HRO SRC

BOA®

**FIT TO GO
FURTHER.™**

poron^{xrd} | extreme
impact
protection



Chicago

#201306 635 g



EUR 37 – 47

EN ISO 20345:2011 S1P HRO SRC

BOA®

FIT TO GO
FURTHER.™

poron^{xrd} | extreme
impact
protection



Boston

#201614 604g

**Antistatic
Removable
Poron® XRD®
Footbed**

Breathable Comfortable Upper

**Non-metal
Anti-penetration**

**Lightweight
Sporty Injection
Phylon Midsole**

**Dual Density Outer Sole,
Flex-lines Facilitate Movement**

**Aluminium
Toe Cap**



EUR 37 – 47

EN ISO 20345:2011 S1P HRO SRC

BOA®

**FIT TO GO
FURTHER.™**

poron^{xrd} extreme
impact
protection



Wrexham

#201710 540 g

**Super Light
Weight
Ergonomic
Footbed**

Durable Comfortable Upper

**Non-metal
Anti-penetration**

**Reinforced
Rubber
Front-cap**

**Light Weight
Sporty Injection
Phylon Midsole**

**Gravity® Bump Outer Sole
Flex-lines Facilitate Movement**

**Aluminium
Toe-cap**

EUR 36 – 47

EN ISO 20345:2022 S1PL FO HRO SR ESD

BOA®

**FIT TO GO
FURTHER.™**



Calgary

#201730 640 g

**Antistatic
Removable
Poron® XRD
Footbed
incl. Coolmax®**

**Slip-in
Heel-cap**

**Non-metal
Anti-penetration**

**Light Weight
Sporty Injection
Phylon Midsole**

Waterproof and Breathable Upper

**Reinforced
Rubber
Front-cap**

**Aluminium
Toe-cap**

**Gravity® Bump Outer Sole
Flex-lines Facilitate Movement**

EUR 37 – 47

EN ISO 20345:2022 S7S HRO FO SC SR ESD

BOA®

**FIT TO GO
FURTHER.™**

HDry®

poron^xrd extreme
impact
protection



Mersey 2

#211613 680g



EUR 37 – 47

EN ISO 20345:2022 S7L FO HRO SR ESD

BOA®

FIT TO GO FURTHER.™

HDry®

poronXrd | extreme impact protection



Orlando

#201830 670 g

Soft Ankle
Protection

Super Light Weight
Ergonomic Footbed

Light Weight
Sporty
Injection
Phylon
Midsole

HDry® Waterproof
Breathable
Membrane

Non-metal
Anti-penetration

Gravity® Bump Outer Sole
Flex-lines Facilitate Movement

Reinforced
Rubber
Front-cap

EUR 36 – 47

EN ISO 20345:2022 S7L FO HRO SR ESD

BOA®

FIT TO GO
FURTHER.™

HDry®



Kasai

#201548 670 g



EUR 39 – 47

EN ISO 20345:2011 S3 HRO WR SRC

BOA®

FIT TO GO FURTHER.™

HDry®

poron^xrd | extreme impact protection



K2

#211475 820 g



BOA®

FIT TO GO
FURTHER.™

3M
Thinsulate
INSULATION

poron^{xrd} extreme
impact
protector

SOLES
BY

MICHELIN



Technical Wool Socks #21010300



Comfortable and Durable, for Work and Leisure

- Anatomically customized to provide superior fit
- Wool provides unsurpassed protection for the feet
- The natural fibres in the material regulate body temperature
- Composition: 57% wool / 18% polyester / 25% nylon
- Packaging, size and weight: 2-pack / one size / 58 g per pair
- Colours: Black/orange, grey logo



Gravity-IP

#210102 44g



EUR 01(36-38), 02(39-41), 03(42-44), 04(45-47)

Injection Phylon (IP) and Poron®

- Air ventilation plus fast-dry surface technology
- Releases tension during physical performance
- Uniquely designed stabilizing arch support
- Shock absorbing heel inserts



European Standards Footwear Classifications

Function	European Standards EN ISO 20345 for safety footwear
Impact Resistance	Level of protection: 200 Joules
Compression Resistance	Level of protection: 15kN
Anti - penetration Sole	With symbol of "P" resist a penetration force of 1,100 Newtons (N)

Marked	Standard for EN ISO 20345:2022	Marked	Standard for EN ISO 20347:2022
SB	Basic requirements for safety footwear: - Standing 200 Joules on impact - Slip resistance of SRA, SRB or SRC standard	OB	In terms of comfort and wear resistance, a level of quality as defined by an agreed European Standard
S1	As above SB standard, plus: - Closed seat region - Antistatic properties - Energy absorption of seat region - Resistance to fuel oil	O1	As above OB standard, plus: - Closed heel area - Antistatic properties - Energy absorption of seat region
S1P	As above S1 standard, plus perforation resistance	O2	As above O1 standard, plus: - Water-penetration and absorption resistance
S2	As above S1 standard, plus: - Water penetration and absorption - Non cleated outsole		
S3	As above S2 standard, plus: - Penetration resistance - Cleated outsole		
S7L	As above S3 standard, plus: - Non-metallic perforation resistant insert with resistance to 4.5 mm nails - Water resistant on whole footwear		

European Standards Footwear Classifications

(Cont.)

Slip resistance according to the EN ISO 20345:2011

The following markings show on which ground the footwear provides protection (how much friction):

Marked	Lubricant	Test Area	Test Mode	Normative standards friction coefficient
SRA	NaLS	Ceramic tile floor	Forward heel slip	≥ 0,32
			Forward flat slip	≥ 0.28
SRB	Glycerol	Steel floor	Forward heel slip	≥ 0.18
			Forward flat slip	≥ 0.13
SRC	Tested and conforms to both (SRA & SRB) specification tests			

Slip resistance according to the EN ISO 20345:2022

Slip resistance is an important feature of safety footwear. It is considered mandatory and will therefore not carry a mark. There is an option for an additional slip test to be carried out, which will be marked with an SR symbol. The slip resistance test is carried out on a ceramic tile using different lubricants. The heel and forepart of the boot will be tested.

Marking	Basic Requirement		Additional Requirement SR	
Surface	Ceramic		Ceramic	
Lubricant	NaLS		Glycerine	
Position	Heel	Forepart	Heel	Forepart
Direction	Forward	Backward	Forward	Backward
Requirement COF	$\geq 0,31$	$\geq 0,36$	$\geq 0,19$	$\geq 0,22$

COF = coefficient of friction

Please note that even if the footwear is marked with SRC or SR, the user must always pay attention to the condition on the ground as the responsibilities always stays with the user.

European Standards Footwear Classifications

(Cont.)

Symbols	Function	Requirement
A	Antistatic	Between 0.01 and 1000 M Ω
P	Penetration resistance metallic insert	At least 1,100 newtons of pressure, tested with 4.5 mm nail
PL/PS	Perforation resistance non-metallic insert	PL - With 1,100 newtons of pressure, tested with 4.5 mm nail PS - Average value of four tests must not be lower than 1,100 newtons, tested with 3.0 mm nail
C	Conductive footwear	< 0.1 M Ω
CI	Insulation against cold	In an environment of minus 17°C for 30 minutes, the insole surface temperature should not have declined by more than 10°C
AN	Ankle protection	The ankle areas shall be protected at least on the outer side of the footwear
E	Energy absorption	> 20J
HI	Insulation against heat	The environment is 150 °C for 30 minutes, the insole surface temperature should not rise above 22 °C
HRO	Resistance to hot contact up to 300°C	When exposed to high temperatures up to 300 °C of the surface, there should be no broken soles
WPA	Water penetration and water absorption resistant upper	Water penetration time > 30 min Water absorption after 20% $\leq$ 30min Permeable volume $\leq$ 3g / h Water vapor permeability $\geq$ 0.8mg/cm2h
LG	Ladder grip	To offer better foothold on ladders, the outsole of a safety shoe must have a transverse profile with a height of at least 1.5 mm in the arch area
FO	Fuel oil resistance	The shoe sole's resistance to hydrocarbons (oils, petrol, etc.)
M	Metatarsal protection	The metatarsal protective device shall be such that, under impact, the resulting forces are distributed over the outsole, the toecap and as large a surface of the foot as possible
WR	Water resistance	Protection classes, S6 and S7, for waterproof footwear: S6 = the footwear meets the requirements of class S2 and is also waterproof (WR) S7 = the footwear meets the requirements of class S3 and is also waterproof (WR)



European Standard High Visibility Clothing

Minimum area with visibility materials m²

	Class 1	Class 2	Class 3
Fluorescent material	0,14	0,50	0,80
Reflective material	0,10	0,13	0,20

X => The number shown next to the graphic symbol indicates the class of the garment according to the table. You will find the certification class printed on the care label inside the product.

EN ISO 20471



EN ISO 20471:2013

- Safety and visibility are important parts of reducing accidents in the workplace. This standard specifies requirements and test methods for visibility clothing. The workwear must be CE-tested and certified by an accredited certification institute.
- If the maximum number of washes are not specified in the care instructions, the articles have been tested after five washes. The lifespan of the garment depends on i.e. use, care, and storage. Regular and proper care of the workwear provides best performance.
- The workwear is marked as EN ISO 20471:2013 and the fluorescent and reflective areas are divided into three different classes. The certification class of the garment is based on the area of visible materials and can be either class 1, 2 or 3. The certification class shall be marked within the workwear.
- The high visibility protective product shall not be covered by any other garment or equipment. And even if a high visibility garment is used, the user will not be visible in all conditions. If the workwear is dirty, its performance will be impaired. Follow the care instructions inside the high visibility workwear to maintain its properties.

Hi-vis T-shirt

#400100



XS – 4XL (00 - 07)

EN ISO 20471 Class 1

Very comfortable High-Visibility T-shirt with stretch.
The fabric has UV protection, and the main part is in bamboo, which is pleasant to the skin, moisture-wicking and breathable, plus it helps to reduce unpleasant odours.

- Safety-class: EN ISO 20471 Class 1
- Colours: Black / Hi-vis Yellow
- Specifications: 55% Bamboo / 45% Polyester 180g, UV protection
- Reflective material: Two 5 cm reflective stripes around torso, one 5 cm reflective stripe around upper arm, reflective material on both shoulders



Hi-vis Sweatshirt

#400200



XS – 4XL (00 - 07)

EN ISO 20471 Class 1

Thick and solid Sweatshirt which warms on chilly days. The cotton fabric ventilates well and provides high comfort and good insulation whenever needed. It works just as well as an outer garment as an insulating layer.

- Safety-class: EN ISO 20471 Class 1
- Colours: Black / Hi-vis Yellow
- Specifications: 100% Cotton 320g black, 100% Polyester 300g Hi-vis yellow
- Reflective material: Two 5 cm transfer reflective stripes around torso and each arm, reflective material on both shoulders



Hi-vis Paclite Jacket #400300



XS – 4XL (00 - 07)

EN ISO 20471 Class 3

A very light, breathable and pack-friendly shell jacket that provides maximum visibility in combination with protection against wind. Certified as class 3 in all sizes. It works just as well in the workplace as during various outdoor activities.

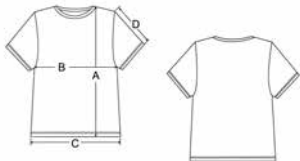
- Safety-class: EN ISO 20471 Class 3
- Colours: Hi-vis Yellow
- Specifications: 100% Polyester Ribstop, soft fleece inner-collar, YKK front-zip, two front pockets with zippers, one inner pocket with zip, drawstring at hem, ID card D-ring
- Reflective material: Two 6 cm transfer reflective stripes around torso and each arm, reflective material on both shoulders



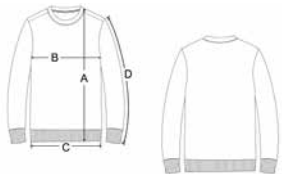


Size Charts - Unisex

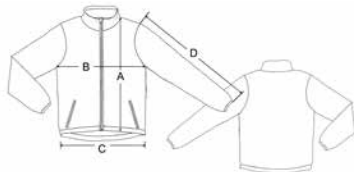
Workwear:



T-SHIRT	XS	S	M	L	XL	2XL	3XL	4XL
A) Body length	65	67	70	72	75	78	81	84
B) 1/2 Chest	43	47	51	55	59	63	67	71
C) 1/2 Bottom	43	47	51	55	59	63	67	71
D) Sleeve length	21	21	21.5	21.5	22	22	22.5	22.5



SWEATSHIRT	XS	S	M	L	XL	2XL	3XL	4XL
A) Body length	68	70	72	74	76	78	80	82
B) 1/2 Chest	47	51	55	58	62	66	70	74
C) 1/2 Bottom	42	45	48	52	56	59	62	65
D) Sleeve length	59	60.5	62	63.5	65	66.5	67	67.5



JACKET	XS	S	M	L	XL	2XL	3XL	4XL
A) Front length	64.5	67	70.5	72	73.5	75	76.5	78.5
B) 1/2 Chest	49.5	52.5	55.5	58.5	61.5	64.5	67.5	70.5
C) 1/2 Bottom	49	52	55	58	61	64	67	70
D) Sleeve length	66	67	69	70	71	72	73	74

Footwear:

DESCRIPTION	SIZE / MEASUREMENT (mm)											
EUR size	36	37	38	39	40	41	42	43	44	45	46	47
Insole-length Aluminium Toecap	231	239	248	256	265	273	281	290	298	307	315	324
Insole-length Composite Toecap	233	241	249	257	265	273	281	289	297	305	313	321

**Iron
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SCANDINAVIA



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