



**BORN TO WORK**



**MANUFACTURER'S INSTRUCTIONS AND INFORMATION**

**N° 49**

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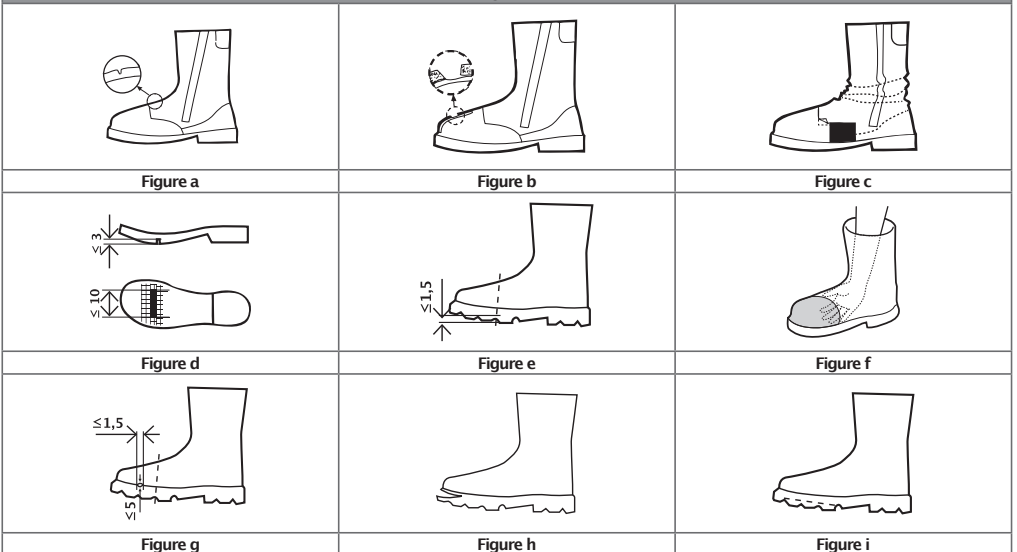


Table I:

ADDITIONAL SYMBOLS	ADDITIONAL SAFETY REQUIREMENTS	EN ISO 20345:2022												EN ISO 20347:2022												Requirements EN ISO 20345:2022 o EN ISO 20347:2022			
		S8	S1	S2	S3	S3L	S4	S5	S5L	S5S	S6	S7	S7L	S7S	O8	O1	O2	O3	O3L	O3S	O4	O5	O5L	O5S	O6	O7	O7L	O7S	
-	Closed seat region	O	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	X	The heel area must be closed
-	Toe cap resistant to 200 Joule	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Toe cap resistant to a compression of 15 kN	X	X	X	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-		
A	Anti-static footwear	O	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	Electrical resistance >100 kΩ and ≤1000 MΩ	
E	Energy absorption in the heel region	O	X	X	X	X	X	X	X	X	X	X	X	X	O	X	X	X	X	X	X	X	X	X	X	X	X	Absorbed energy ≥20J	
FO	Resistance to fuel oil	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Increase of volume ≤12%	
WPA	Water resistant upper	O	-	X	X	X	X	-	-	-	X	X	X	X	O	-	X	X	X	X	-	-	-	X	X	X	X	Absorption ≤30% Penetration ≤0,2 g	
P	Penetration resistance (metal)	O	O	-	X	-	-	-	X	-	-	-	X	-	O	-	X	-	-	-	X	-	-	X	-	-	-	≥1100 N	
PL	Penetration resistance (NO metal φ 4,5 mm)	O	O	-	-	X	-	-	-	X	-	-	-	X	-	O	-	-	X	-	-	-	X	-	-	-	X	No perforation at 1100 N	
PS	Penetration resistance (NO metal φ 3,0 mm)	O	O	-	-	-	X	-	-	-	X	-	-	-	X	O	-	-	-	X	-	-	-	X	-	-	X	Average perforation force ≥1100 N Single perforation force ≥950 N	
CI	Cold insulation	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Decrease of temperature after 30 minutes at -17 °C ≤10 °C	
HI	Heat insulation	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Increase of temperature after 30 minutes at 150 °C ≤22 °C	
C	Partially conductive footwear	O	-	-	-	-	-	-	-	-	-	-	-	O	-	-	-	-	-	-	-	-	-	-	-	-	-	Electrical resistance ≤100 kΩ	
HRO	Heat resistance of outer sole	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	No sign of fusion and/or breaking	
AN	Malleolus protection	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Average transmitted energy: ≥10 kN single ≥15 kN	
WR	Water resistance of the complete footwear	O	O	-	-	-	-	-	-	-	X	X	X	X	O	-	-	-	-	-	-	-	-	X	X	X	X	No water penetration	
M	Foot arch protection footwear	O	O	O	O	O	O	O	O	O	O	O	O	O	-	-	-	-	-	-	-	-	-	-	-	-	-	Residual height after impact: size 41 and 42 ≥40,0 mm	
CR	Cut resistance upper	O	O	-	O	O	O	-	O	O	O	O	O	O	O	-	O	O	O	O	-	O	O	O	-	O	O	Index of cut resistance ≥2,5	
SR	Slip resistance (ceramic with glycerol)	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	≥0,19 (t, 7°) ≥0,22 (p, 7°)	
LG	Footwear for ladders	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	Waist edge dimension adequate for ladders	
SC	Abrasion resistance of the overcap	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	No through holes after 8000 abrasion cycles	

X = Compulsory for the relevant category  
 O = Optional, applicable in addition to the compulsory requirements if marked  
 - = Requirement not applicable.

Figure I:



## STANDARDS

Regulation (EU) 2016/425	Of the European Parliament and of the Council on Personal Protective Equipment
EN ISO 20344:2011	Personal Protective Equipment – Test methods for footwear
EN ISO 20345:2022	Personal Protective Equipment – Safety footwear
EN ISO 20347:2022	Personal Protective Equipment – Occupational footwear
EN ISO 13287:2019	Personal protective equipment – Footwear – Test method for slip resistance
EN 61340-5-1:2016	Protection of electronic devices from electrostatic phenomena – General requirements
EN ISO 17249:2013+AC:2014	Safety footwear with resistance to chain saw cutting
EN 15090:2012	Footwear for firefighters
EN ISO 20349-1:2017/A1:2020	Personal protective equipment – Footwear protecting against thermal risks in foundries and welding – Part 1 – Requirements and test method for protection against risks in foundries



Технический регламент таможенного союза «О безопасности средств индивидуальной защиты»

## SAFETY CATEGORIES

A	Antistatic footwear	EN ISO 20345:2022 Footwear with toe protection against 200 J impact	SB	-
E	Energy absorption of seat region		S1	A + E + closed heel area
FO	Resistance to fuel oil of outsole		S1 P	S1 + Metal anti-perforation insert resistant to a nail $\phi$ 4,5 mm
P	Penetration resistance (metal insert)		S1PL	S1 + Non-metal anti-perforation insert resistant to a nail $\phi$ 4,5 mm
			S1PS	S1 + Non-metal anti-perforation insert resistant to a nail $\phi$ 3,0 mm
PL	Penetration resistance (non-metal insert)		S2	S1 + WPA
			S3	S2 + P + sole with cleats
PS	Penetration resistance (non-metal insert)		S3L	S2 + PL + sole with cleats
			S3S	S2 + PS + sole with cleats
HRO	Resistance to hot contact of outsole		S6	S2 + WR
		S7	S3 + WR	
CI	Cold insulation of sole complex	S7L	S3L + WR	
		S7S	S3S + WR	
HI	Heat insulation of sole complex	S4	closed heel area + A + E	
WR	Water resistant footwear	S5	S4 + sole with cleats + P	
WPA	Water resistant upper	S5L	S4 + sole with cleats + PL	
M	Metatarsal protection	S5S	S4 + sole with cleats + PS	
AN	Ankle protection	EN ISO 20347:2022 Footwear without toe protection	OB	-
CR	Cut resistance of upper		O1	A + E + closed heel area
SC	Scuff cap abrasion		O1P	O1 + Metal anti-perforation insert resistant to a nail $\phi$ 4,5 mm
			O1PL	O1 + Non-metal anti-perforation insert resistant to a nail $\phi$ 4,5 mm
SR	Slip resistance (ceramic with glycerine)		O1 PS	O1 + Non-metal anti-perforation insert resistant to a nail $\phi$ 3,0 mm
			O2	A + E + WPA
LG	Ladder Crip		O3	O2 + P + sole with cleats
			O3L	O2 + PL + sole with cleats
			O3S	O2 + PS + sole with cleats
			O6	O2 + WR
		O7	O3 + WR	
		O7L	O3L + WR	
		O7S	O3S + WR	
		O4	closed heel area + A + E	
		O5	O4 + sole with cleats + P	
		O5L	O4 + sole with cleats + PL	
		O5S	O4 + sole with cleats + PS	



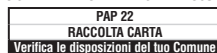
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