

SAFETY BOOTS AND SHOES

You will find, below, a summed-up presentation of every standard applicable to safety boots and shoes.

- **EN344**: general requirements
- <u>EN345</u>: specifications on safety shoes for professional use.
- <u>EN347</u>: specifications on working shoes for professional use.
- Marking

EN344 standard : general requirements

This standard defines the general requirements and test methods on safety shoes, protective shoes and working shoes for professional use.

This standard can only be used together with EN345, EN346 and EN347 standards, which specify the shoes requirements according to specific risks levels.

	EN345 standard: Specifications on safety shoes for professional use.	EN347 standard: Specifications on working shoes for professional use.
	This standard defines, in reference to EN344 standard, the basic and additional (optional) requirements on safety shoes for professional use. These shoes include devices to protect the user against injuries caused by accidents liable to occur in the industrial environment for which the shoe has been designed, fitted with safety toe-cap intended to deliver a protection against impacts with an energy level equal to 200 joules.	These shoes are different from safety shoes because they have no protective toe-cap against impacts and crushing.
are designed by a code :	at the combinations of the most with the combination of t	despread requirements. They
All materials	SB: basic properties	
CLASS 1 All materials except natural or synthetic polymers.	S1: basic properties and - closed back - anti-static properties - heel energy absorption	O1 : basic properties and : - closed back - sole resistance to hydrocarbons - anti-static properties - heel energy absorption

	S2 : like S1 and - waterproofness	O2 : like O1 and : - waterproofness
	S3 : like S2 and - anti-puncture sole - studded sole	O3 : like O2 and - anti-puncture sole - studded sole
CLASS 2 Natural and synthetic polymers	S4: basic properties and: - anti-static properties - heel energy absorption	O4: basic properties and - anti-static properties - heel energy absorption
	S5: like S4 and - anti-puncture sole - studded sole	O5 : like O4 and - anti-puncture sole - studded sole

MARKING

Every safety shoe must be marked in a clear and indelible way, for example, by print or by hot set, with the following information :

- o Size
- o Designation of the manufacturer type
- o Manufacturer identification mark
- o Manufacturing date (at least quarter and year)
- o Reference to the European standard
- Appropriate symbols to the delivered protection or, if necessary, the appropriate category (SB, S1, ..., S5) described in the table above.

Concerning the particular specifications symbols, their meaning complies with indications below :

P	Sole resistance to puncture
E	Heel energy absorption
C	Electrical resistance, anti-stasis
HI	Insulating sole against heat
CI	Insulating sole against cold
WRU	Resistance to absorption of water by the upper of the leather shoes
HRO	Sole resistance to contact heat
ORO	Walking shoe resistance to hydrocarbons
WR	Resistance to water penetration of the junction sole / upper of the leather shoes
M	Metatarsus protection against impacts
CR	Upper resistance to cutting