

# TESLA SB FO E PS CI HI WPA WR HRO SR

HRD057E

CE EN ISO 20345:2022 SB FO E PS CI HI WPA WR HRO SR

High safety shoe, WPA anti-scratch back leather thickness 1,8-2,0 mm.

Perspiring and abrasion resistant fabric lining.

Soft, Windtex® water resistant membrane lining, with very good perspiration and abrasion resistance.

Shoe with refracting fabric insert. Soft, lined and padded tongue.

**COMPLETELY METAL FREE SHOE**

**TOECAP 200J** polymeric composite **non-thermic** according to EN 22568

**PS MIDSOLE** fabric INSULATION composite flexible anti-perforation according to EN 22568

**SOLE HARD ROCK INSULATING** bidensity polyurethane and INSULATING RUBBER resistant to hydrocarbons and to abrasion, anti-shock and anti-slipping

- The bottom of the shoe, within some limits (no humidity, it doesn't concern the upper), offers electrical resistance against tension up to 1.000V - M 0hm > 1.000

- Electrical resistance: CSA Z195-14 Canadian standard increase 1 kV/sec - voltage 20.000V /60 hz - duration 1 minute. Electric flow requirement less than 1,0 mA

- Electrical resistance: ASTM F2413 -24 (similar to ASTM F2412:2024) - 1 kV/sec increment voltage 20000 V/60 Hz - duration 1 minute. Electrical flow requirement less than 1.0 mA.

**DIELECTRIC INSOLE** bimaterial extracomfort with activated carbon, breathable, removable, anatomical, absorbent, insulating and antibacterial.

Environmentally Sustainable Eco-Friendly

**FO** sole resistance to hydrocarbons

**E** energy absorption on seat region

**PS** sole resistance to perforation non metallic (nail Ø3,0mm)

**CI** cold insulation of sole complex -17°C

**HI** heat insulation of sole complex

**HRO** resistance to hot contact of the outsole

**WR** water resistant shoe

**SR** sole resistance against slipping

**THIS PRODUCT COMPLIES WITH THE REQUIREMENTS OF THE STANDARD ASTM F2413-24:**

- Impact resistant footwear (I)
- Compression resistant footwear (C)
- Puncture Resistant Footwear (PR)
- Electric Hazard Resistant Footwear (EH)
- Slip Resistance (SRO)

**Size 39-47 Shoe weight Sz 42 gr. 625**



## CERTIFICATIONS



## TECHNOLOGIES AND MATERIALS



## SECTORS

 ELECTRICIAN  COLD PLACES


SOLE



**Hard Rock Dielectric** is the specific shoe for people who work with **electrical cables** and are more exposed to a danger of electrocution. This is possible thanks to the **rubber** compound of the shoe which assures a complete protection from the discharges from the ground. Thanks to these specific materials we obtained 3 important sector certifications: canadian (**C.S.A. Z195-14**), and american (**ASTM 2413-11**) for the electrical resistance to 20.000V for 1 minute; the European one for the electrical resistance more than 1000MQ.

SRC

| ANTISLIPPING TEST RESULTS |               |         |
|---------------------------|---------------|---------|
|                           | request       | results |
| <b>SRA</b>                |               |         |
| ceramic + NaLS            | HEEL ≥ = 0,28 | 0,40    |
|                           | FLAT ≥ = 0,32 | 0,40    |
| <b>SRB</b>                |               |         |
| steel + glycerol          | HEEL ≥ = 0,13 | 0,17    |
|                           | FLAT ≥ = 0,18 | 0,22*   |



SRA+SRB=

**SRC**  
ANTI-SLIPPING SOLE

*\*after simulation of walking by slight abrasion*

PLUS



**WINDTEX®**  
Windtex® is an innovative membrane that blocks wind and water, by guaranteeing at the same time a homogeneous transpiration of the foot. The degree of transpiration of Windtex® together with windproof property, allow the maintenance of microclimate of the shoe. This membrane, with technology Aegis®, builds and antimicrobial barrier against unpleasant odors, fungi and other microorganisms.



**ZERO ABRASION**  
The Zero Abrasion technology is an anti-scratch leather, finished with a plyurethane multi-layer, that assures a complete protection of the upper against usury and abrasion. Highly resistant to water and oils, this leather is suitable for people who like wearing always clean and nice shoes even after months of usage.