



# VOLT SB FO E PS HRO SR

HRD055H

CE EN ISO 20345:2022 SB FO E PS HRO SR

**LOW SAFETY SHOE**

**39-47**

**DIELECTRIC** Sole line

Low safety shoe, suede back leather thickness 1,8-2,0 mm.  
External 3D fabric, perspiring and abrasion resistant.  
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  
Article HRD055H has been tested using a method analogous to ASTM F2413-24 (EH) and CSA Z195-14: determination of resistance to an electric shock, increase 1 kV/sec, voltage 20,000 V/60 Hz holding the voltage for 1 minute. Electrical current requirement below 1.0 mA.

The outsole of the footwear, within specific limits (in the absence of moisture, not referring to the upper), was tested using a method analogous to EN ISO 20345:2022 to provide electrical insulation against voltages up to 1000 V M ohm >1000.

(Test report No. 4351088/E)

**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)

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

**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. 590**

*\* The calculated weight excludes laces and insoles.*

## AREAS OF APPLICATION

Electrician

## CERTIFICATIONS APPLIED



**PS** Puncture Resistance with Non-Metallic Insert (nail Ø 3.0mm)



**HRO** Sole Resistance +300



**ASTM F2413-24**



**E** Heel Energy Absorption



**FO** Hydrocarbon Resistance



**Insulation up to 20,000V**

## TECHNOLOGIES AND MATERIALS



**No metal**



**Metal-Free**



**High Breathability**



**Mondo Point 11**



**Slip Resistance (optional glycerin test)**

↳ SOLE

## DIELECTRIC Sole line

Dielectric sole line was developed to meet the needs of those working in contact with electrical cables and systems. Specifically, this line offers a safety shoe with an insulating sole that provides specific protection against the risk of electric shock.

This is made possible by a series of insulating materials specifically designed for this purpose: the nitrile rubber compound of the outsole, the polyurethane foam of the midsole, the fabrics of the puncture-resistant insole, and the compound of the internal footbed.

These technologies enabled the shoes to pass electrical resistance tests in accordance with the analogous method of the EN ISO 20344:2021 standard and ASTM F2413 (EH) / CSA Z195-14 at 20 kV/60 Hz.

In addition, the specific materials used in the sole construction allowed the product to obtain the important American certification ASTM 2413-24 EH (Electric Hazard Resistant Footwear).

