GIASCO









EDISON SB FO E PS CI HI WPA HRO SR

HRD060D

CE EN ISO 20345:2022+A1:2024 SB FO E PS CI HI WPA HRO SR

ANKLE SAFETY SHOE **37-48**

DIELECTRIC Sole line

High safety shoe, made of Hydro WPA pigmented crust leather and heel with scratch-resistant leather with Hydro WPA PU coating thickness 1.8-2.0 mm., with refractive insert.
Perspiring and abrasion resistant fabric lining.
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 HRD060D 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)
CI cold insulation of sole complex -17°C
HI heat insulation of sole complex
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 37-48 | **Shoe weight** Sz 42 **gr. 625**
** The calculated weight excludes laces and insoles.*

↳ AREAS OF APPLICATION

- Cold Environments
- Electrician

↳ CERTIFICATIONS APPLIED

- Water Penetration and Absorption (WPA)
- PS Puncture Resistance with Non-Metallic Insert (nail Ø 3.0mm)
- HRO Sole Resistance +300
- ASTM F2413-24
- Heel Energy Absorption
- Hydrocarbon Resistance
- Heat Insulating Outsole
- Insulation up to 20,000V

↳ TECHNOLOGIES AND MATERIALS

- No metal
- Metal-Free
- High Visibility
- Mondo Point 11
- Cold Insulating Outsole
- Scratch-Resistant Leather



Slip Resistance (optional glycerin test)

↳ PLUS

Scratch-Resistant Leather

Zero Abrasion technology uses leather finished with multiple layers of polyurethane to protect the upper from scratches, cuts, and wear. This solution ensures that the footwear maintains flawless performance and appearance even after months of intense use, providing advanced resistance against abrasive surfaces and mechanical environments—all while preserving foot comfort and breathability.

↳ 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).



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