PRODUCT DATA SHEET

EDISON HRD060D

Ankle Safety Shoe – Black · Dielectric Sole Line

CE EN ISO 20345:2022+A1:2024 SB FO E PS CI HI WPA HRO SR | ASTM F2413-24 I/C/PR/EH/SRO | Sizes 37–48

GIASCO
HARD ROCK INSULATING
DIELECTRIC SOLE LINE



HIGH SAFETY SHOE

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. Breathable and abrasion-resistant fabric lining. Soft, lined and padded tongue.

Completely Metal-Free Shoe | **Environmentally Sustainable · Eco-Friendly**


Front View


Outsole


Sole Construction

SPECIFICATIONS

UPPER	Hydro WPA pigmented crust leather
HEEL	Scratch-resistant leather with Hydro WPA PU coating, 1.8–2.0 mm, with refractive insert
LINING	Breathable and abrasion-resistant fabric
TONGUE	Soft, lined and padded
TOECAP	200 J polymeric composite, non-thermal, according to EN ISO 22568
PS MIDSOLE	Fabric insulation composite, flexible anti-perforation, according to EN ISO 22568
SOLE	Hard Rock Insulating – bidensity polyurethane and insulating rubber, resistant to hydrocarbons and abrasion, anti-shock and anti-slip
INSOLE	Dielectric – bimaterial extra-comfort with activated carbon; breathable, removable, anatomical, absorbent, insulating and antibacterial
CONSTRUCTION	Completely metal-free shoe
SIZE	37–48
WEIGHT	Size 42: 625 g (excludes laces and insoles)
COLOUR	Black

EN ISO 20345:2022+A1:2024 – SB

FO	Sole resistance to hydrocarbons
E	Energy absorption of seat region
PS	Sole resistance to perforation, non-metallic (nail Ø 3.0 mm)
CI	Cold insulation of sole complex, −17 °C
HI	Heat insulation of sole complex
WPA	Water penetration and absorption
HRO	Resistance to hot contact of the outsole (+300 °C)
SR	Sole resistance against slipping

ASTM F2413-24 – COMPLIES WITH

I	Impact resistant footwear
C	Compression resistant footwear
PR	Puncture resistant footwear
EH	Electric hazard resistant footwear
SRO	Slip resistance

ELECTRICAL INSULATION – DIELECTRIC SOLE LINE

20,000 V test: 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/s, voltage 20,000 V/60 Hz, holding the voltage for 1 minute. Electrical current requirement below 1.0 mA.
Outsole: within specific limits (in the absence of moisture, not referring to the upper), tested using a method analogous to EN ISO 20345:2022 to provide electrical insulation against voltages up to 1,000 V, > 1,000 MΩ. (Test report No. 4351088/E)

Developed to meet the needs of those working in contact with electrical cables and systems: an insulating sole providing specific protection against the risk of electric shock. Insulating materials: 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 passed electrical resistance tests per the analogous method of EN ISO 20344:2021 and ASTM F2413 (EH) / CSA Z195-14 at 20 kV/60 Hz, and allowed the product to obtain ASTM F2413-24 EH (Electric Hazard Resistant Footwear).

CERTIFICATIONS APPLIED · TECHNOLOGIES AND MATERIALS

- WPA — Water Penetration and Absorption (WPA)
- PS — PS Puncture Resistance, Non-Metallic (Nail Ø 3.0 mm)
- +300 °C HRO SOLE — HRO Sole Resistance +300 °C
- ASTM F2413-24 — ASTM F2413-24
- E — Heel Energy Absorption
- FO — Hydrocarbon Resistance
- HI — Heat Insulating Outsole
- 20.000 V SOLE — Insulation up to 20,000 V
- SR — Slip Resistance (Opt. Glycerine Test)
- NO METAL — No Metal
- NO METAL — Metal-Free
- HIGH VISIBILITY — High Visibility
- XL MONDO POINT 11 — Mondo Point 11
- CI −17° C — Cold Insulating Outsole
- ZERO ABRASION — Scratch-Resistant Leather

AREAS OF APPLICATION

Cold Environments

Electrician

PLUS – SCRATCH-RESISTANT LEATHER

ZERO ABRASION

Zero Abrasion technology uses leather finished with multiple layers of polyurethane to protect the upper from scratches, cuts and wear. 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.

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