

# DIELECTRIC BOOTS

## CLASS 2



RESPIREX™

Power Generation

Power Distribution

Construction

Telecommunications

Transport

An electrically insulating dielectric boot with an integral steel toe cap and vulcanized rubber sole for superior slip resistance. The Respirex Dielectric boot allows high-voltage live working at up to **17kV**, with every boot tested at 20kV AC, with optional DC testing at 50kV (Class 2).



Live Working  
**CLASS 2**  
EN 50321-1  
**17 kV**



**40**  
Cal/cm<sup>2</sup>  
ARC FLASH TESTED

### Features

- Injection molded using our proprietary **Dielectric compound** for a seamless boot with excellent electrical insulation properties
- **Step voltage protection** up to 35kV\*
- **Arc flash protection** – Meets the requirements of ASTM F2621-2019 at 40Cal/cm<sup>2</sup>\*\*
- 200 Joule epoxy coated steel **toe cap** (soft toe version also available)
- **Vulcanized rubber sole** for improved slip resistance - 30% better than a conventional safety boot sole
- **Durable, cut-resistant** vulcanized rubber sole, significantly extends working life, even in harsh terrain
- Cleated outsole for **maximum grip** in wet and oily conditions (SRC)
- **Heat resistant sole** EN 20345:2011 **HRO**, 60 seconds at 300°C
- **Cold insulation** to EN ISO 20345:2011 **CI**
- **Fuel and oil resistant** sole
- Ergonomic **cushioned insole** (removable & machine washable) for greater wearer comfort
- **Energy absorbing** tunnel system in heel to EN 20345:2011 E
- Non-wicking knitted nylon lining
- Kick-off lug
- Adjustable height
- CE marked on the shaft with date and year of manufacture
- REACH Compliant

### Care

- Machine washable at up to 40°C
- Shelf life of over 10 years

### Options

- Additional DC high voltage test
- Removable thermal liner

### High Voltage Test

Each boot: **20kV AC** - Leakage current <18mA over the three minute test cycle

### Sizes

US	4	5	6	7	8	9	10	11	12	13	14	15	16
EU	35	36	37	39	41	42	43	44	45	46	47	49	50
UK	3	4	5	6	7	8	9	10	11	12	13	14	15



### Certification

- **EN ISO 20345:2011 SB E CI HRO SRC FO**  
Safety Footwear
- **EN 50321-1:2018 Class 2 AC**  
Electrically Insulating Footwear for Live Working
- **ASTM F1117 (20kV)**  
Dielectric Footwear
- **ASTM 2413 EH (18kV)**  
Step Voltage Protection
- **PPE Regulation (EU) 2016/425**  
Personal Protective Equipment

\*Tested using the ASTM 2412-18a step voltage test method at 35kV with leakage current less than 1mA.

\*\*The Respirex Dielectric boot has been independently tested and meets the test requirements of ASTM F2621-2019.

Specifications, configurations and colors are subject to change without notice.

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