



## DESCRIPTION

The Vermason 28335 Heel Grounders are designed to identify operators who work in RoHS 2 lead-free work areas. Properly wearing two Vermason 28335 Heel Grounders on ESD Flooring provides personnel grounding for standing or mobile personnel. These heel grounders are designed for use on standard shoes. They can be easily adjusted to fit most individuals. The heel grounders have a lining that prevents carbon marks on shoes. The heel grounder has a discrete one megohm resistor built into the conductive nylon ribbon. It is a suitable ESD footwear component in an EN 61340-5-1 person/footwear/flooring system.

## FEATURES

- A. 0.152cm thick, two-layer laminated rubber heel. Inner layer is green neoprene, and outer outer black layer is conductive neoprene.
- B. 0.952cm wide, 76.2 cm long grey nylon ribbon contains 8 electrically conductive carbon suffused fibers, reversible, to be placed in shoe under the foot.
- C. 0.952cm wide green genuine "non-selvedged" Velcro non-elastic hook material
- D. 0.952cm wide green genuine "non-selvedged" Velcro stretch loop material, for quick and easy attachment of grounder to foot

## Designed to satisfy Footwear Limits of EN 61340-5-1

Rg:  $1 \times 10^6$  ohms meets footwear limits of EN 61340-5-1 tested per IEC 61340-5-1 Clause A.1

### Notes:

*"When the use of a wrist strap system is impractical, the [ESD] floor and [ESD] footwear shall be the primary means of ESD control." [EN 61340-5-1 clause 5.5 EPA working practices]*

*"Heel and toe grounders should be worn on each foot. If worn improperly, heel and toe grounders become ineffective" [CLC/TR 61340-5-2:2008 User guide Footwear clause 4.7.4.2.1 Heel and toe grounders]*

*"Where toe and heel straps are used as ESD footwear, once these are worn outside the EPA, particularly on carpets, they are likely to accumulate fluff and become ineffective; this requires that they be checked or replaced on every visit to the EPA [ESD Protected Area]." [EN 61340-5-2:2008 User guide clause 5.2.8 Footwear]*

*For additional information on the use and maintenance of foot grounders please ask for Technical Bulletins PPE-5006.E or PPE-5011.E.*



Made in the United States of America

Item #	Description	Farnell Part #
VER-28335	Foot grounder, Heel, Green, 1 Megohm Resistor	1677241

Unless otherwise noted all tolerances are +/- 10%

Special manufactured items are not returnable for credit

**FOOT GROUND, HEEL, GREEN, 1MEG, FARNELL PART # 1677241**

# Vermason

VERMASON  
 UNIT C, 4TH DIMENSION, FOURTH AVENUE, LETCHWORTH,  
 HERTFORDSHIRE, SG6 2TD, UNITED KINGDOM  
 PHONE: +44 (0) 1462-672005, FAX: +44 (0) 1462-670440  
 E-MAIL: Service@Vermason.co.uk, INTERNET: Vermason.co.uk

**DRAWING NUMBER**  
 VER-28335

**DATE**  
 April  
 2013

Customer Approval

Date