



248555

"For standing operations, personnel can be grounded via a wrist strap system or by a footwear-flooring system. When a footwear-flooring system is used, personnel shall wear ESD footwear on both feet and the two following conditions shall be met:

- the total resistance of the system (from the person, through the footwear and flooring to ground) shall be less than  $1,0 \times 10^9 \Omega$ ;
- the maximum body voltage generation shall be less than 100 V."

[IEC 61340-5-1 Clause 5.3.3 Personnel Grounding]

"Heel and toe grounders are used for employees and visitors in an ESD controlled area. Heel and toe grounders should be worn on each foot. If worn improperly, heel and toe grounders become ineffective. Heel grounders can easily lose contact with the floor and therefore, may require more monitoring than other types of footwear. It is important that the conductive ribbon has good electrical contact with the person's body through direct contact with the person's skin or by connection through the person's socks."

[CLC/TR 61340-5-2 User guide clause 4.7.4.2.1 Heel and toe grounders]

For additional information on the use and maintenance of foot grounders, please download Technical Bulletin [TB-7515](#).

- Designed to be worn by personnel grounded via a person/footwear/flooring system per EN 61340-5-1 Table 2.
- Heel grounders are used for earthing personnel where mobility is required such as in warehouses and where static protective flooring or mats have been installed. Floors with a defined built-in resistance to earth between 1 and 20 megohms are preferred.
- Heel grounders generally fit all flat shoes.
- The conductive parts are two-layer rubber so as not to mark light coloured shoes.
- The double heel cup is made of abrasion resistant neoprene.
- The rubber grounding strap passes under and around the back of the shoe. It is secured on top of the shoe with a distinctive yellow strap.
- Connection between the operator and floor is achieved by a conductive grounding tab, that passes over the side of the shoe into the shoe itself where contact is made with the stockinged foot. Straps are hook and loop; hook is 10cm long, loop is 36cm long.
- Hook and loop closures allow for adjustment.
- Socks or stockings will not usually insulate the wearer as natural perspiration completes the path and achieves a body to earth resistance of less than 1 megohm. Where the resistance to earth of the floor is less than 1 megohm we recommend the use of heel grounders with a built-in 1 megohm resistor. The resistor is rated at ¼ Watt. Desco Europe recommends the use of a [footwear tester](#).
- Supplied with resistor only.

Item	Description
<a href="#">248555</a>	Heel Grounder, 1 Megohm resistor, Yellow straps, Bag of 2
<a href="#">248560</a>	Heel Grounder, 1 Megohm resistor, Yellow straps, Bag of 25



Made in the United Kingdom

Unless otherwise noted, tolerance  $\pm 10\%$   
Specifications and procedures subject to change without notice.

### Heel Grounder with Hook and Loop Straps

# DESCO EUROPE

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