

The Conductors ESD – Designer Plus Series

Combining style, ergonomics, extreme durability and Class Zero ESD performance for any static control application.

Stock Colors No minimum



27122 Solder Grey 24"



27123 BGA Blue 24"



27121 Mosaic Alloy 24"

Non Stock Colors 500 yard minimum



27120 Metallic Beige 24"



27127 Graphite 24"

 **Lifetime
Conductivity
Warranty**

 **Roller Caster
Electrical Test
Proven**

24" Available in 24" Carpet Tile



27126 Silicon Valley Sand 24"



27125 Burnished Copper 24"



27124 Pure Titanium 24"

The Conductors ESD – Designer Plus Series

Modular Conductive Carpet Tile

SPECIFICATIONS

Construction: Textured loop

Yarn weight: 22 oz./sq. yd. (745.93 g/sm)

Total weight: 96.98 oz./sq. yd. (3288.18 g/sm)

Stitches per inch: 9.0

Pile height: 0.156" (3.96 mm)

Fiber: ECO Solution Q SD Nylon

Sizes: 24" x 24"

Conductive fiber: Staticworx Helix 44 denier conductive fiber

kV rating: AATCC 134-1996 electrostatic propensity: less than 0.4 kV (400 volts). Tested at 20% relative humidity at 20°C and 70°F.

Body voltage generation (BVG) per ANSI/ESD S97.2: Voltage on person in combination with grounded Conductors ESD Series carpet tile < 20 volts.

Electrical resistance:

ESD S7.1/NFPA 99 Resistance Characterization of Materials: Six or more readings from surface to groundable point. Tested with an applied voltage of 100V. Measured in Ohms, $2.5 \times 10^4 - 1.0 \times 10^6$.

ESD S7.1/NFPA 99 Resistive Characterization of Materials: Six or more readings between electrodes placed 1 foot apart. Tested with an applied voltage of 100V. Measured in Ohms, $2.5 \times 10^4 - 1.0 \times 10^6$.

Electrical Resistance/Voltage Test ANSI/ESD S-20.20, compliant when using approved conductive footwear system. Results within recommended range < 35×10^6 Ohm or < 100 volts.

D.O.D. HDBK263A, Section 40.1.2: Meets recommended guidelines for sensitive ESD devices, Class 1.

Roller Caster Electrical Test (CET) proven. No significant deterioration of conductive properties after more than 125,000 cycles.

Groundable path: Copper ground strip

Grounding frequency: 1 per 1,000 sq. ft.

Backing systems: Dissipative backing, 100% PVC-free recyclable, made from recycled materials.

Adhesives: Use only Staticworx approved conductive adhesives.

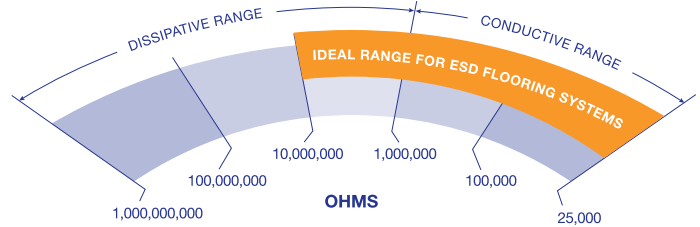
Availability: No minimum

Flammability:

ASTM E-648 flooring radiant panel — Class 1 ($\geq .45$ W/cm²)

ASTM E-662 NBS smoke density — less than 450

Staticworx Conductors ESD Series carpet tile systems provide superior ESD protection with an electrical resistance to ground within the ideal range for ESD Class Zero environments.



This ideal range regarding electrical resistance for ESD flooring systems is defined in ANSI/ESD S20.20-2007 for system resistance. Unlike PVC-backed flooring products, Staticworx's proprietary PVC-free backing meets this specification to allow the only true Class Zero ESD carpet system.

Staticworx modular conductive carpet tile has been awarded the Carpet and Rug Institutes' Green Label Plus certification for Indoor Air Quality.

Engineered using recyclable materials, The Conductors ESD Series has the only ESD-grade "cradle to cradle" modular conductive thermoplastic PVC-free backing.

Benefits compared to PVC:

- Equal dimensional stability at half the weight
- Superior delamination and edge ravel strength
- Green label certified
- 100% recyclable with recycled content
- Lower VOCs and measured smoke density test results than PVC
- Lower embodied energy than PVC
- The only true Class Zero ESD carpet backing



Green Label Plus is a voluntary industry testing program for carpet products that establishes the highest standard for indoor air quality (IAQ) ever set by the carpet industry. Tested by an independent, certified laboratory, carpets with this label meet stringent criteria for low chemical emissions.

Staticworx conductive carpet tile is ideal for:

- Electronics manufacturing, assembly, test and repair
- Offices inside electronics manufacturing or test areas
- Engineering areas
- Design areas
- Any area where circuit boards are handled or used
- Research and development
- Electronics labs
- Networked offices*
- Hospitals
- 911 call centers*
- Data centers*
- Flight towers
- Command centers
- Casinos
- Communications Industry: TV & radio studios
- Retail environments*

* Staticworx also offers the **Resistors Series**: a high-style carpet tile which provides the same level of ESD protection as The Conductors Series. Constructed with heavier yarn, the **Resistors Series** is better suited for installation in networked offices, call and data centers, and retail environments where less demands are placed on the flooring system (as compared to a manufacturing environment).

The information presented is accurate and current but may be subject to change without notice.