

StaticSmart® Plus Discovery Eco Series Level 3 ESD Carpet Tile

PHYSICAL PROPERTIES

Construction	Tufted
Texture	Textured Loop
Gauge	1/10
Density	7,642
Recycled Content	41.7%
Stitches per Inch	10.0
Average Pile Height	0.114 inch (2.9 mm)
Fiber	Premium Branded ECO Solution Q Nylon
Dye Method	100% Solution Dyed
Conductive Fiber Technology	Continuous Conductive StaticSmart Monofilament
Tufted Yarn Weight	24 oz. per sq. yd. (813.74 g/m ²)
Standard Size	24" x 24" (60.9 cm x 60.9 cm)

Installation Method



monolithic

Primary Backing System	Non-Woven Synthetic
Secondary Backing System	EcoWorx® Backing 100% PVC-Free, Phthalate-Free, Recyclable and made from Recycled Material
Protective Treatments	ssp® Shaw Soil Protection
Indoor Air Quality	Green Label Plus Certification
Cradle to Cradle Certification™	Silver Level
Flammability	ASTM E-648 Flooring Radiant Panel - Class 1
Smoke Density	ASTM E-662 NBS Less than 450
TARR	Heavy Duty: >3.0

(Texture & Appearance Retention Rating)

Warranty	Lifetime Static Protection Lifetime Limited Commercial Warranty
Availability	No Minimums
Packaging	12 tiles per carton / 5.33 sq. yd.

STATIC CONTROL PROPERTIES

Electrostatic Propensity	ESD STM 97.2 (w/ Conductive Footwear) — Less than 20 V AATCC 134-06 (w/o Conductive Footwear) — Less than 0.4 kV (400 volts)
Electrical Resistance	ESD S7.1/NFPA 99 Resistive/Resistance Characterization of Materials: RTT Six or More Readings Between Points Placed 3 Feet Apart. Tested with an Applied Voltage of 100V. Measured in Ohms, 2.5 x 10 ⁴ Minimum, 1.0 x 10 ⁸ Maximum. RTG Six or More Readings from Surface to Groundable Point. Tested with an Applied Voltage of 100V. Measured in Ohms, 2.5 x 10 ⁴ Minimum, 1.0 x 10 ⁸ Maximum Static Dissipative: 1.0 x 10 ⁵ Min., 1.0 x 10 ⁹ Max. Ohms
Industry Standards/Guidelines	ANSI/ESD S20.20-2014 Compliant when Using Approved Footwear. Results within required limits: < 1 x 10 ⁹ Ohms and < 100 Volts FAA-STD-019f, Motorola R56 and ATIS-0600321.2010 Compliant Roller Caster Electrical Test (CET) Assessment: After 100,000 Chair Caster Cycles There was No Appreciable Change in Conductivity or Electrical Performance. Lab Data Available on Request
Groundable Path	StaticSmart Ground Strip or RTG Connector Kit 1
Grounding Frequency	1 per 1,000 Square Feet
Adhesive Requirement	StaticSmart SDT+ Conductive Adhesive