

FAA Series ESD Carpet Tiles Product Specs

PHYSICAL PROPERTIES		STATIC CONTROL PROPERTIES	
Construction	Tufted	Electrostatic Propensity	ESD STM 97.2 (w/ Conductive Footwear) — Less than 100 V (passes 97.2) AATCC 134-06 (w/o Conductive Footwear) — Less than 0.4 kV (400 volts)
Texture	Textured Loop	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, 2.5×10^4 Minimum, 1.0×10^8 Maximum. RTG Six or More Readings (Top surface to groundable point. Tested with an applied voltage of 100V. Measured in Ohms, 2.5×10^4 Minimum, 1.0×10^8 Maximum
Gauge	1/10	Static Dissipative:	1.0×10^6 Min., 1.0×10^9 Max. Ohms
Density	7,642	Industry Standards	ANSI/ESD S20.20-2014 Compliant when Using Approved Footwear. Results within required limits: $< 1 \times 10^9$ Ohms and < 100 Volts FAA-STD-019f, Motorola R56 and ATIS-0600321.2010 Compliant
Recycled Content	41.7%	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
Stitches per Inch	10.0	Groundable Path	United SCP Ground Strip
Average Pile Height	0.114 inch (2.9 mm)	Grounding Frequency	1 per 1,000 Square Feet
Fiber	Premium Branded ECO Solution Q Nylon	Adhesive Requirement	United / Static Smart SDT+ Conductive Adhesive or United Peel and Stick conductive fiber reinforced adhesive.
Dye Method	100% Solution Dyed	Warranty	Lifetime Static Protection Lifetime Limited Commercial Warranty
Conductive Fiber Technology	Continuous Conductive Monofilament	Availability	No Minimums
Tufted Yarn Weight	24 oz. per sq. yd. (813.74 g/m ²)	Packaging	12 tiles per carton / 5.33 sq. yd.
Standard Size	24" x 24" (60.9 cm x 60.9 cm)		
Installation Method	Primary Backing System Non-Woven Synthetic		
Protective Treatments	Secondary Backing System EcoWorx® Backing 100% PVC-Free, Phthalate-Free, Recyclable and made from Recycled Material		
Indoor Air Quality	Flammability ssp® Shaw Soil Protection		
Cradle to Cradle Certification™	Smoke Density Green Label Plus Certification		
TARR	Flammability Silver Level		
<small>(Texture & Appearance Retention Rating)</small>	Flammability ASTM E-648 Flooring Radiant Panel - Class 1		
Warranty	Smoke Density ASTM E-662 NBS Less than 450		
Availability	TARR Heavy Duty: >3.0		
Packaging	Warranty Lifetime Static Protection Lifetime Limited Commercial Warranty		

General Information: Our FAA Series ESD Carpeting is manufactured for United SCP by a major ISO approved and certified carpet mill that is located in the U.S.A. The product has stellar static control properties that rival ESD thick set epoxy and high quality ESD Tile flooring. As such, it may be used in diverse static control environments including FAA Control towers and TRACONS to Electronic Manufacturing and Mission Critical laboratories and communications. Unlike many ESD carpet tiles, conductive fibers are interwoven into every yarn bundle providing extremely consistent point to point and resistance to ground readings. United's FAA Series carpet tiles easily conform to D.O.D. HDBK263A, section 40.12 guidelines for ESD sensitive devices, Class 1. It exceeds FAA-STD-109e and Motorola R56 standards and guidelines for static control flooring. The product interfaces well with ESD chairs and carts equipped with ESD casters or drag chains allowing it to conform perfectly to the ANSI ESD S20.20-2014 program requirements. Our FAA series carpeting has outstanding sound deadening qualities. It features a lifetime limited commercial wear warranty and features permanent static control properties that are not dependent on topical sprays, humidity or special antistatic treatments to maintain its outstanding static control properties.