


UltraTech II Series ESD Carpet Tile Product Specifications

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	6,754	Industry Standards	ANSI/ESD S20.20-2021 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 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
Recycled Content	42.1%	Groundable Path	United SCP Ground Strip
Stitches per Inch	10.0	Grounding Frequency	1 per 1,000 Square Feet
Average Pile Height	0.091 inch (2.31 mm)	Adhesive Requirement	United / Static Smart ESD Vantage conductive Adhesive
Fiber	Premium Branded ECO Solution Q Nylon	Warranty	
Dye Method	100% Solution Dyed	Availability	No Minimums
Conductive Fiber Technology	Continuous Conductive Monofilament	Packaging	12 tiles per carton / 5.33 sq. yd.
Tufted Yarn Weight	22oz. per sq. yd. (813.74 g/m ²)		
Standard Size	24" x 24" (60.9 cm x 60.9 cm)		
Installation Method			
 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		
<small>(Texture & Appearance Retention Rating)</small>			

General Information: UltraTech II 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 S20.20-2021 program requirements. UltraTech II 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.