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[https://store.unitedesd.com/ESD\\_Floor\\_Tiles\\_p/e-tile.htm](https://store.unitedesd.com/ESD_Floor_Tiles_p/e-tile.htm)

## ELECTRATILE ESD FLOOR TILES

### ESD Floor Tile Specifications

12" X 12", 1/8 inch thick, 45 square feet to a carton

**PRODUCT OVERVIEW:** ElectraTile ESD flooring features a high rating for dimensional stability and compressive strength. It is supplied in the static conductive range for the fastest, most complete charge decay possible. ElectraTile's outstanding micro-finish provides a clean high tech appearance while its superior total composition (devoid of cheap fillers and clay binders) provides unparalleled wear resistance and longevity. ElectraTile ESD Tile, *THE* choice for controlling ESD in clean rooms, electronic manufacturing, computer rooms, repair facilities or *anywhere* static control is a requirement.

ITEM	Standard test Method	ASTM Spec	ESD Static Conductive Tile
<b>ELECTRICAL / ELECTROSTATIC PROPERTIES</b>			
Electrical Resistance -Surface to Surface -Surface to Ground	ESD S 7.1 (100V / 10V)	$>2.5 \times 10^4 \sim <10^6 \Omega$	$2.5E04 < 1.0E06$
	ASTM F-150 (100V / 10V)	$>2.5 \times 10^4$	$>2.5 \times 10^4 \sim <1.0 \times 10^6 \Omega$
Electrostatic Propensity	AATCC 134-19	<b>* In recommended Non Conductive Footwear</b>	< .4kV
Electrostatic Propensity	AATCC 134-19 <b>(supplemental testing)</b>	<b>In ESD conductive shoes</b>	< 20 volts
Electrostatic Propensity	ANSI ESD S20.20-2014, 97.2	<100 Volts	Passes at < 100 V (< 10 volts common)
Static Decay, Method 4046 at 15% rH	ASTM F-101C	< 0.5 sec	<0.01 sec
Electrical Resistance	D.O.D. HDBK236A, Section 40.1.2	N/A	Meets recommended guidelines for ESD Devices, Class 1
<b>OTHER PROPERTIES</b>			
CEN Classification	DIN EN 685		Class 34 + 43
Composition of Material	ASTM F 1700	Certificate of Compliance	Homogeneous
Thickness	ASTM F 386, DIN EN 428	as specified $\pm 0.005$ in. (.125)	.125



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Nominal Sizes	ASTM F 536, DIN EN 427	±0.016 in./lin. Ft (0.4mm/304.8 mm)	12" x 12", 24" x 24"
Residual Indentation	ASTM F1914 DIN EN 433	average less than 8%, max. single reading 10%	< 7%
Static Load	ASTM F-970-07	2,500 PSI	2.500 PSI
Flexibility	ASTM F 137	no crack or break	No crack or break
Dimensional Stability	ASTM Fed. Std. No. 501a Method 6211, DIN EN 434	<0.020"/ft (0.51 mm/304.8 mm)	<0.015"/ft
Resistance to Certain Chemicals	ASTM F 925 DIN EN 423	No more than a slight change in surface dulling, surface attack or staining	no more than a slight change in surface dulling, surface attack, or staining
Resistance to Heat	ASTM F 1514	Δ<8 ave., max	<ΔE=2.0
Resistance to Light	ASTM F 1515	ΔE<8 ave., max	<ΔE=6.0
Static Load Limit	Modified ASTM F 970-00	-	>2,500 psi
Smoke Density	ASTM E 662	<450	<450
Flame Spread	ASTM E 84, NFPA 225	<75	<75
Fire Resistance	DIN 4102		B1
Critical Radiant Flux	ASTM E 648, NFPA 253	Pass	>1.08 W/cm <sup>2</sup> (class I Interior Floor Finish, NFPA Life Safety code 101)
Abrasion Resistance	ASTM D 1044, CS-10-F Wheel, 500Gm Weight	-	Cycle % Gauge Loss 10,000 1.60
Resistance to Wear	DIN EN 660-1	-	M
Effect of Castor Chair	DIN En 425	-	No Damage
Color Fastness	ISO 105 B02	-	At least 6
Standard for Health Care Faculties	NFPA 99	-	Conforms to the requirements of NFPA 99 in effect at the time of installation
Fulfils product requirements	DIN EN 649	-	yes



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Underwriters Laboratories	UL 779	-	Meets UL Standard
<b>WARRANTY</b>			
Free from defects in Workmanship and materials*			Lifetime
Conductivity*			Lifetime

**ElectraTile Series Green Indoor Air Certification** 

Reference Standard: California Department of Health CDPH/EHLB/Standard Method Version 1.2, 2017.

- CALGreen, CA Code of Regulations Title 24, Part II, 2010, Sections 4.504.4/5.504.4.6: Resilient Flooring Systems
- ANSI/ASHRAE/USGBC/IES Standard 189.1-2009, Section 8.4.2.3: Floor Covering Materials
- USGBC LEED CI, NC, Schools, 2009, IEQ Credit 4.3: LEM - Flooring Systems
- USGBC LEED for Healthcare, 2009 (Feb 2011), IEQ Credit 4: LEM, Group 3 - Flooring
- Collaborative for High Performance Schools (CHPS) rating system, 2009 Criteria. EQ2.2.3: Flooring Systems
- Green Guide for Healthcare, V2.2, 2007, EQ Credit 4.3: LEM - Flooring Systems

Revision History:

- 7.2.16: Original release
- 2.5.20: Hyperlink added, reviewed for accuracy, approved SRC
- 4.3.20: Clarified ASTM 134-19. Clarified for accuracy