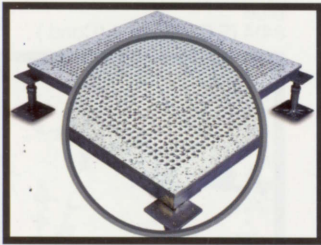


# 3M™ 8400 Series ESD Floor Tile

## Mechanical Properties (typical)

Static-Dissipative Floor Tile (Model numbers 8411-8427)  
Conductive Floor Tile (Model numbers 8431-8447)

Flammability	
Flame Spread Index (ASTM E162/ASTM E84)	Meets Class 1 requirements
Smoke Development (ASTM E84)	Meets Class 1 requirements
Critical Radiant Flux (ASTM E648/NFPA 253)	> 1.1w/cm <sup>2</sup>
Physical Specifications	
	Meets ASTM F1066-99
	Meets US Federal Specification SS-T-312B
Hardness (ASTM D 2240)	55+/- Shore D
Flexibility (CSA 126.2)	
100 mm mandrel @ 25°C	Does not break
Abrasion Resistance (ASTM D 3389)	
Taber H22 wheel, 70 rpm	0.445 grams (weight of tile removed per 1000 cycles)
Static Load (ASTM F970)	
125 lbs., 0.25 in. diameter indenter foot, 24 hours	2500 PSI point load
Residual indentation	3% of tile thickness
700 lbs., 1.125 in. diameter indenter foot, 24 hours	700 PSI point load
Residual indentation	1% of tile thickness



3M™ 8400 Series ESD Floor Tile is available in the special 24.5" x 24.5" size used for raised access floor panels.

## Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

### Limited Warranty

Subject to the provisions of this Limited Warranty, 3M expressly warrants that 3M 8400 Series Static Control Floor Tile will be free from defects in material and manufacture for a period of ten (10) years from the date of purchase. 3M warrants that the 3M Product will meet all requirements of ASTM F 150 or will perform in accordance with test method ESD S71 for the lifetime of the Product. This applies to both "Static Dissipative" Tile (surface-to-ground resistance of  $1 \times 10^4$  to  $1 \times 10^9$  ohms) and "Conductive" Tile (surface-to-ground resistance of  $2.5 \times 10^4$  to  $1 \times 10^6$  ohms) subject to the Warranty Exclusions listed below. Must be installed using 3M approved conductive adhesive. Electrical performance of the installed tile must be tested and certified by a 3M representative.

### Exclusive Remedy; Limited Liability; Claims Procedure

Any Claims for surface defects or variations in color or pattern must be communicated to 3M in writing prior to the actual installation. If this product is proved defective within the warranty period stated above, the exclusive remedy will be, at 3M's option, to repair or replace the 3M Product or to refund the purchase price of the 3M Product. **IN NO EVENT WILL 3M OR ANY SELLER BE RESPONSIBLE OR LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL LOSSES OR DAMAGES UNDER ANY LEGAL THEORY INCLUDING BUT NOT LIMITED TO**



## Electronic Handling & Protection Division

6801 River Place Blvd.  
Austin, TX 78726-9000  
800/537-2799  
www.3M.com/ehpd

## Electrical Properties (typical)

Static-Dissipative                      Conductive

### Electrical Resistance

(Surface-to-ground, ESD S7.1)

$1 \times 10^8$  to  $1 \times 10^9$  ohms                       $2.5 \times 10^4$  to  $1 \times 10^6$  ohms

### Static Generation

(With conductive footwear at 20% RH)

< 50 volts                      < 25 volts

### Static Decay

(Federal TM 101B, Method 4046 @ 15% RH [5000 volts to 0 volts])

<0.10 sec.                      <0.03 sec.

## Sizes

### Static-Dissipative and Conductive

0.125 x 12 x 12 in. (3.2 x 305 x 305 mm)

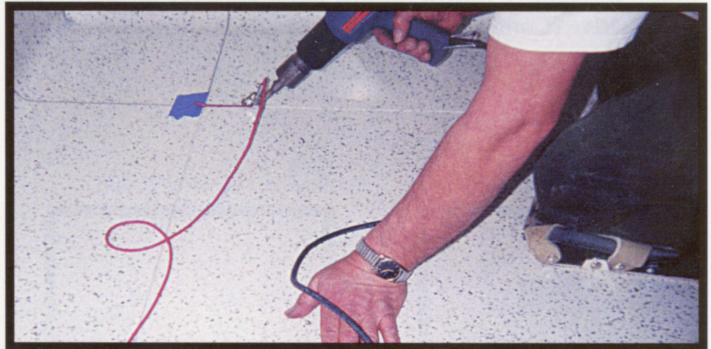
0.125 x 24.25 x 24.25 in. (3.2 x 615 x 615 mm)

– for raised access floor panels

0.125 x 24 x 24 in. (3.2 x 610 x 610 mm)

0.125 x 36 x 36 in. (3.2 x 915 x 915 mm)

– for seamwelded installations



3M 8400 Series ESD Floor Tile can be self-covered and seamwelded during installation.

**CONTRACT, NEGLIGENCE OR STRICT LIABILITY. 3M MUST BE NOTIFIED IN WRITING OF ANY DEFECT AND SUCH DEFECTIVE PRODUCT MUST BE RETURNED TO 3M ALONG WITH A PROOF OF PURCHASE.** 3M will not accept the return of any product without the prior approval of 3M. If the product is already installed, then 3M must examine and verify the defect.

### Warranty Exclusions:

(1) There is no warranty for (i) workmanship of installation and (ii) dissatisfaction, problems, or damage due to installation or maintenance, other than as recommended by 3M. (2) Excessive moisture in or below the concrete slab can result in adhesion problems and/or surface defects (blistering or cracking) in any flooring material. This warranty does not include delamination or surface defects due to the presence of alkali or other contaminants in the subfloor or due to hydrostatic pressure or moisture vapor transmission rates greater than 3 pounds per 1000 square feet per 24 hours (ASTM F-1869). (3) There is no warranty for any reduction in the gloss of the tile from use. (4) There is no warranty for damage due to accidents, gouges, scuffs, scratches or indentation. (5) If Buyer's purchase includes goods from another manufacturer, only the warranty given by that particular manufacturer will apply to those specific goods. (6) **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly install, maintain, clean or repair the 3M Product. (7) 3M Flooring Products that are sold as "seconds" are sold strictly on an "as is" basis without any warranty. NOTE: No person or representative is allowed to give any other or any additional warranty other than what is stated above unless approved by an officer of 3M.



Recycled paper  
40% pre-consumer wastepaper  
10% post-consumer wastepaper

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