

# FreeStyle ESD™

Passes Inspection in Sensitive Screening Areas

**FreeStyle ESD™**, the **ONLY** free-floating, static-control flooring used by major electronic manufacturers throughout the US and Europe. It is the perfect choice for tough environments like inspection areas and test and measurement labs. These areas are often tucked away in locations that were not originally designed for static control. Retrofitting these areas can be time consuming, costly, and may not result in a reliable static-protected environment. With **FreeStyle ESD™**, tiles can be installed directly on top of any existing hard surface flooring. The tiles have a conductive top layer and a conductive base and connect electrically when interlocked, creating a stand-alone static-control flooring plane without the use of conductive adhesives or copper foil strips. Quite simply, **FreeStyle ESD™** is the easiest, most reliable static-control flooring available and can be used in any environment.

In tough environments, **FreeStyle ESD™** offers:

### Reliable Installation

- Minimal downtime, disruption, or surface preparation
- Much lower life-cycle costs
- Quick changeover process
- Portability for future moves
- Performs where most adhesive-applied products fail, including over high-moisture subfloors
- Requires minimal subfloor prep
- Lifetime electrical warranty / 10-Year Wear Warranty

### Best in Class

- Available in stylish design patterns and decorative colors.
- Waffle pattern backing for comfort under foot

## OXYGEN ELECTRONICS



Oxygen Electronics had a receiving area that needed static-control flooring and needed it in a hurry. With an old, irregular subfloor, installing glue-down ESD flooring would have required costly and time-consuming preparation of the subfloor and may not have given them a floor that could hold up to the demands of their operations. With **FreeStyle ESD™**, they were able to make the conversion to an ESD floor in just one weekend.



*"We were under the gun to get this project done quickly to meet the needs of an important customer and couldn't afford to shut down our operations. With FreeStyle ESD™, we did the work over the weekend and were back in business on Monday morning."*



### Limited 10-Year Warranty

**FreeStyle™ ESD** is a durable floor covering and is backed by a lifetime electrical and 10 year limited wear warranty. Ask your **FreeStyle™ ESD** dealer for more details on our warranties.

### Installation-Interlocking

**FreeStyle™ ESD** is a 18.5" x 18.5" (2.38 sq. ft./tile) interlocking floor tile. A plastic deadhead hammer should be used for joining these products. Tiles can be cut using a vinyl-tile cutter, circular saw, jig saw, or other power saws. **FreeStyle™ ESD** is a free-lay system and does not require the use of adhesives. **FreeStyle™ ESD** may be installed over concrete, wood, rubber, vinyl, composite tiles, and other standard floors. A 3/8" gap around the perimeter should be left to allow for expansion and contraction. The floor must be grounded properly to ensure proper discharge of static charges. For more detailed instructions, consult the **FreeStyle™ ESD** Installation Guide.

### Installation-Gluedown

The 2 millimeter top surface of **FreeStyle™ ESD** is also available as a glue down product using a conductive adhesive. For glue down installations, the surface must be properly prepared and free of moisture, dirt, oils, and other foreign materials to ensure a reliable bond with the adhesive. For more detailed instructions, consult the **FreeStyle™ CVT** Installation Guide.

### Regular Maintenance

**FreeStyle™ ESD** is easy to clean and maintain. The tiles can be cleaned with standard neutral cleansers. We recommend our Durashield and ProtectOhm cleaner for best results. The tiles can be cleaned by hand using a mop or sponge. A power scrubber or buffer can also be used to clean particularly tough stains and soiling. Walk-behind auto-scrubbers can also be used in larger applications.

### Architectural Specifications

All floors shown in the Finish Schedule or listed in this specification shall be **FreeStyle™ ESD** Resilient Flooring, manufactured by SelecTech, Inc. Avon, MA. The product should have an electrical resistance of between  $2.5 \times 10^4$  and  $10^6$  Ohms for conductive flooring applications and  $10^6$  to  $10^9$  Ohms for static dissipative applications as measured pursuant to ANSI/ESD 71. The product shall be an interlocking floor tile and be available in 18.5" x 18.5" squares (nominal). This product shall offer a lifetime electrical and 10 year limited wear warranty as detailed in the **FreeStyle™ ESD** Warranty brochure. The tiles shall be installed as a free-lay product without adhesives. Installation shall be as recommended in the **FreeStyle™ ESD** Installation Guide.

### Solvent/Stain Resistance

**FreeStyle™ ESD** has been tested for solvent/stain resistance per ASTM F-925-96 against a number of fluids, such as oils, acids, solvents, and staining agents.

### Physical Properties

<b>Dimensions</b>	18.5" x 18.5"
<b>Thickness of Interlocking</b>	FS4: 0.34"
<b>Effective Coverage</b>	2.38 square feet per tile
<b>Weight of Interlocking</b>	FS4: 5.4 lbs
<b>Reference Specification</b> ASTM F-1700	Conforms
<b>Critical Radiant Flux</b> ASTM E-648	> 1.0 W/cm <sup>2</sup> Meets Class I Fire Rating
<b>Smoke Density</b> ASTM E-662	≤ 450
<b>Chemical Resistance</b> ASTM F-925	Excellent resistance to Acids, Alkalis, Household Chemicals
<b>Recycled Content</b>	Minimum 20% Post-Industrial Materials
<b>Weight of Glue-Down</b>	1.95 lbs
<b>Thickness of Glue-Down</b>	2 mm

### Electrical Properties

	FreeStyle CONDUCTIVE**	FreeStyle DISSIPATIVE
<b>Electrical Resistance</b> ESD S7.1 at 15% RH	$2.5 \times 10^4$ to $10^6$ Ohms	$10^6$ to $1.0 \times 10^9$ Ohms
<b>Electrostatic Propensity*</b> ESD STM 97.2 at 15% RH AATCC-134 at 15% RH	<10 volts	<30 volts
<b>Static Decay Method 4046</b> at 15% RH	<0.01 seconds	<0.02 seconds

**ESD S20.20:** Complies  
**Grounding:** Concrete Floor: Every 1000 Sq. Ft.  
Access Floor: Every 3000 Sq. Ft.

\*All conductive flooring (regardless of composition or manufacturer) requires appropriate conductive footwear to achieve results in this range.

#### For more information contact:

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