ESD Bench Matting - 2 Layer, Textured Finish

Features:

- High quality ESD bench matting
- Reflection breaking surface to reduce glare and improve operator comfort
- Protection against small collisions thanks to natural resilience of rubber
- Prevents sliding of delicate components thanks to excellent friction coefficient
- Heat resistant: rubber does not melt or burn coming into contact with hot metal parts or soldering debris
- Resistant to chemical agents normally used for maintenance
- Oil resistance: this product resists most oils
- Suitable for loose laying: does not require application with adhesive
- Good resistance to scratches
- Excellent flexibility and comfort
- Cut mats available on request
- European origin

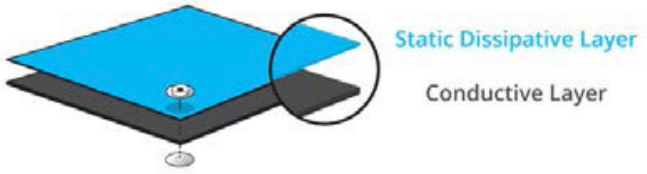
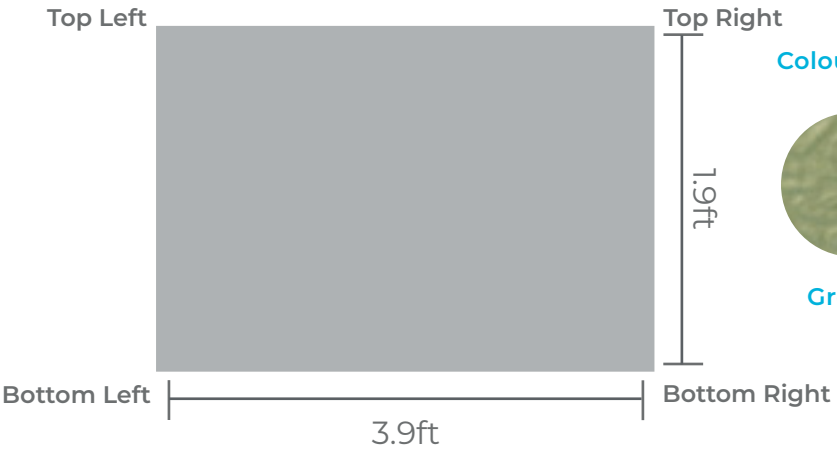


Fig. 1: Stud Positioning



Colours / Finish

Requesting Cut Mats with Studs

If ordering pre cut mats and you require studs to be added, please ensure that the position of the stud is specified as per Fig 1.

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Grounding

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3 less than 1 x 109 ohms for working surfaces. Industry recommendation is that continuous runs of ESD matting should be grounded at 10ft intervals to allow proper charge decay rates. Each individual ESD mat should be grounded with ground snaps located no further than five feet from either end.

Cleaning

Please note that contact between the matting surface and any acid or alkali solvent is strictly prohibited (such as Benzene, Alcohol etc), this will result in the antistatic performance wearing away. If cleaning is required, the matting may be wiped with a cloth coated in a neutral solution (such as water).

Guidance on use

Matting materials have a tendency to shrink slightly when first unrolled. In applications where length is critical, allow the material to relax for at least 4 hours before cutting to size. Matting should always be trimmed with a sharp knife or razor blade.

Cutting tolerances

Width ± 6mm

Length ± 6mm every linear foot of running material

RoHS Compliance

None of the following materials are intentionally added in manufacturing this product: lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) or polybrominated diphenyl ethers (PBDE) as outlined in the Directive 2002/95/EC Article 4.1.

Test Results

Characteristic	Standard	Average Results (Ohms)
Surface Resistance	IEC 61340-4-1	$1x10^7$ / $1x10^9$ Ohms
EN 1000015-1	-	$5x10^6$ / $5x10^8$ Ohms
EOS/ESD S11-11	-	$1x10^7$ / $5x10^8$ Ohms
Volume Resistance	IEC 61340-4-1	$5x10^6$ / $1x10^8$ Ohms
Resistance to Ground	EN 100015-1	$1x10^6$ / $1x10^8$ Ohms
EOS/ESD S11-11	-	$1x10^6$ / $1x10^8$ Ohms
IEC 61340-4-1	-	$5x10^6$ / $5x10^7$ Ohms
Charge Decay	FED TM 101C (5000V-50V)	<0,01sec

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Test Results

Details	Test Standard	Results
Material	-	Conductive rubber, static dissipative rubber
Thickness	-	2mm
Width	-	120cm
Length	-	10m per roll
Surface	-	Non-Shining
Tester	-	ETS 406C Static Decay Meter, 3M Model 701 Test Kit for Static Control Surfaces
Hardness	ISO 7619	75±5 shore A
Abrasion Rate	ISO 4649, method A	≤200mm³
Indentation	EN433	≤0,20mm
Cigarette Burning Resistance	EN1399	No burn
Chemical Resistance	EN423	Resistant to chemical agents normally used for maintenance
Dimensional Stability	EN424 - 6h/80°C	≤0.4%
Surface Resistance Top Layer	EN 100015.1-IEC61340	About 10^8 Ohms
Surface Resistance Bottom Layer	EN 100015.1-IEC61340	About 10^8 Ohms

Results after accelerated ageing at 70°C for 12 days

Characteristic	Standard	Average Results (Ohms)
Surface Resistance	EOS/ESD S11-11	<10^9 Ohms
EN 1000015-1	-	-
Volume Resistance	IEC 61340-4-1	<5 x 10^8 Ohms
Resistance to Ground	EOS/ESD S11-11	<10^8 Ohms
IEC 61340-4-1	-	<10^8 Ohms
Charge Decay	FED TM 101C (5000V-50V)	<0,02sec

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Product Code	Description	Size (ft)	Size (Metric)	Additional Notes
082-0028	ESD Bench Matting - Textured Finish	3.9 x 32	1.2m x 10m (roll)	Blue
082-0034	ESD Bench Matting - Textured Finish	3.9 x 32	1.2m x 10m (roll)	Grey
082-0035	ESD Bench Matting - Textured Finish	3.9 x 32	1.2m x 10m (roll)	Green
082-0024	ESD Bench Matting - Textured Finish	1.9 x 4	600mm x 10m	Blue
082-0025	ESD Bench Matting - Textured Finish	1.9 x 4	600mm x 10m	Grey
082-0027	ESD Bench Matting - Textured Finish	1.9 x 4	600mm x 10m	Green
067-0060	Stud - Top Left		10mm stud	Each
067-0061	Stud - Top Right		10mm stud	Each
067-0062	Stud - Bottom Left		10mm stud	Each
067-0063	Stud - Bottom Right		10mm stud	Each
067-0064	Stud - All 4 Corners		10mm stud	Qty 4 Studs