

# ESD Bench Mat 2 Layer – Smooth Finish

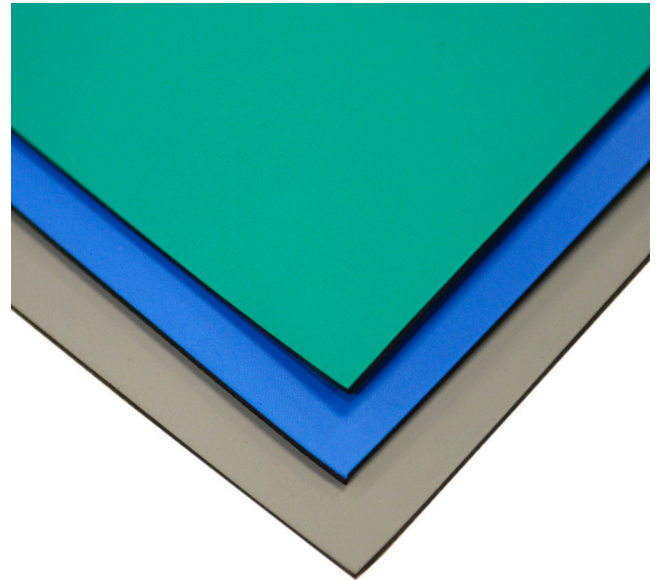


## Description

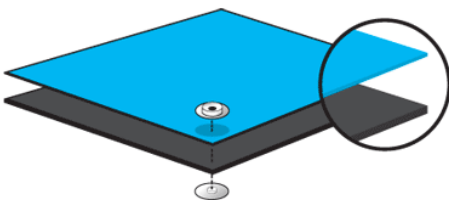
Great value ESD bench matting made from anti-static (conductive) and static dissipative materials with synthetic rubber. Suitable for use in workshops or laboratories for microelectronic industries.

## Features

- 2mm thick double-layer structure
- Surface layer is a 0.5mm thick static-dissipative layer
- Bottom layer is a 1.5mm conductive layer
- Available in blue, grey or green



## Construction



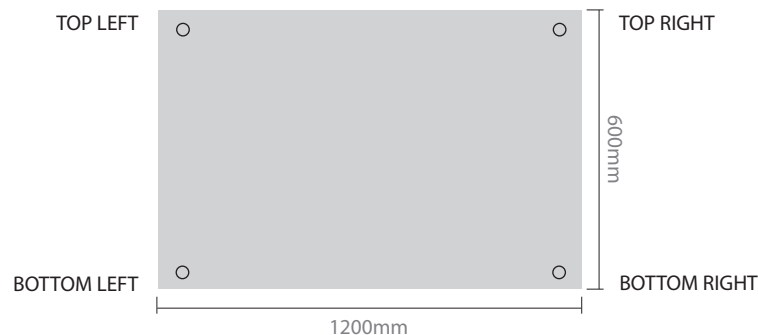
Static Dissipative Layer

Conductive Layer

## Colours / Finish



**Fig 1: Stud Positioning (Stud Size: 10mm)**



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## Grounding

Sufficient ground cords should be used to reliably meet EN 61340-5-1 Table 3 less than  $1 \times 10^9$  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  $\pm 6$ mm

Length  $\pm 6$ mm every linear foot of running material

## RoHS Compliance

All of Antistat's products are RoHS and Reach compliant.

## Test Results

	Test Method	Unit	Value
Surface Resistance	ANSI/ESD S4.1	$\Omega$	$1 \times 10^6 \leq R \leq 1 \times 10^9$
Bottom Resistance	ANSI/ESD S4.1.	$\Omega$	$1 \times 10^5 \leq R \leq 1 \times 10^6$
Thickness		mm	Permissible tolerance +0.1
Temperature Resistance		$^{\circ}\text{C}$	180 (instantaneous temp)

Product Code	Description	Size (mm)	Additional Notes
RND 600-00057 *	ESD Bench Matting - Smooth Finish	600 x 1200	Blue (Each)
RND 600-00058 *	ESD Bench Matting - Smooth Finish	600 x 1200	Grey (Each)
RND 600-00059 *	ESD Bench Matting - Smooth Finish	600 x 900	Grey (Each)

### \* These pre-cut mats are supplied with studs

Pre cut mats are supplied with grounding studs added in each corner as standard, as specified in Fig 1.

**Stud Size: 10mm.**